

# UNIVERSITY OF CALCUTTA

## SYLLABI

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### THREE-YEAR HONOURS & GENERAL DEGREE COURSES OF STUDIES



**ZOOLOGY**  
**2010**

**Syllabus for three years B.Sc.(Honours Course ) in Zoology,  
University of Calcutta, 2010**

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**University of Calcutta  
Syllabus structure for B.Sc. (Hons) Zoology**

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		Marks
<b>Part I</b>	<b>Paper-I</b>	
	Unit-1 ZHT 01. Animal diversity I: Non-chordate	50
	Unit-II ZHT 02. Cell Biology & Genetics	50
	<b>Paper-II</b>	
	Unit- I ZHT 03. Animal Physiology & Biochemistry	50
	Unit-II ZHP 04. Laboratory course I [Gr. A=25 + Gr. B =25)	50
		200
<b>Part II</b>	<b>Paper -III</b>	
	Unit I ZHT 05. Animal diversity II. Chordate	50
	Unit-II ZHT 06. Histology, Endocrinology & Reproductive Biology	50
	<b>Paper -IV</b>	
	Unit-I ZHT 07. Developmental Biology	50
	Unit-II ZHP 08. Laboratory course II [Gr. A=25 + Gr. B=25]	50
		200
<b>Part III</b>	<b>Paper -V</b>	
	Unit-I. ZHT -09. Microbiology, Parasitology & Immunology	50
	Unit- II ZHT -10. Molecular Biology and Biotechnology	50
	<b>Paper-VI</b>	
	Unit- I ZHT -11. Evolution, Systematics & Animal behavior	50
	Unit-II ZHT -12. Ecology and Environmental Biology	50
	<b>Paper -VII</b>	
	Unit I ZHT -13. Applied Zoology and Biostatistics	50
	Unit-II ZHP -14. Laboratory course-III	50
	<b>Paper-VIII</b>	
Unit-I ZHP -15. Laboratory Course- IV	50	
Unit-II ZHP -16. Laboratory Course -V	50	
		400
Total		800

12. Biostatistics: Principles and Practice – B. Antonisamy, S. Christopher, and P. P. Samuel (Tata McGraw-Hill Edition)

## Syllabus for three years B.Sc.(General Course), Zoology, University of Calcutta, 2010

University of Calcutta  
Syllabus structure for B.Sc. (General) Zoology

Part -I	Paper –I	Marks
	Gr. A Non-Chordate	35
	Gr. B. Cell Biology and Genetics, Molecular Biology	35
	Gr. C. Developmental Biology	30
		-----
		100
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Part-II	Paper II	
	Gr. A. Chordate	35
	Gr. B. Ecology, Animal Behavior, Biodiversity and Wildlife	35
	Gr. C Histology, Endocrinology, Animal Physiology & Biochemistry	30
		-----
		100
	Paper III Laboratory Course (all Groups)	100
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Part -III	Paper IV	
	Gr. A .Applied Zoology	30
	Gr. B. Evolutionary Biology	20
	Gr. C. Parasitology & Immunology	20
	Gr. D Laboratory course	30
		-----
		100
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	Total.	400

**SYLLABUS FOR**  
**B. SC. ZOOLOGY**  
**(HONOURS & GENERAL) 2016**

**UNIVERSITY OF CALCUTTA**

**UNIVERSITY OF CALCUTTA**  
**DRAFT SYLLABUS FOR B. Sc. ZOOLOGY (HONOURS & GENERAL) 2016**

Paper	Unit	No. of Classes	Group	Topic	Marks	
					Gr.	Tot.
<b>PART – I HONOURS</b>						
Paper 1	Unit I	75	Group A	Diversity & Functional Anatomy of Non-chordate Forms	25	50
			Group B	Diversity & Functional Anatomy of Chordate Forms	25	
	Unit II	75	Group A	Cell biology	15	50
			Group B	Genetics	35	
Paper 2	Unit I	75	Developmental Biology			50
	Unit II	75	Practical	Animal forms and Comparative anatomy, Cytological methods and Genetics, Osteology and Embryology	50	
<b>PART – II HONOURS</b>						
Paper 3	Unit I	75	Group A	Systematics	15	50
			Group B	Evolutionary Biology & Adaptation	25	
			Group C	Animal Behaviour	10	
	Unit II	75	Group A	Ecology	25	50
			Group B	Biodiversity and Conservation	25	
Paper 4	Unit I	75	Group A	Animal physiology	25	50
			Group B	Biochemistry	25	
	Unit II	75	Practical	Ecological methods, Systematics and Evolutionary Biology, Animal Physiology and Biochemistry	50	
<b>PART – III HONOURS</b>						
Paper 5	Unit I	75	Molecular Biology			50
	Unit II	75	Group A	Parasitology and Microbiology	25	50
			Group B	Immunology	25	
Paper 6	Unit I	75	Integration Biology and Homeostasis			50
	Unit II	75	Animal Biotechnology & Applied Zoology			50
Paper 7	Practical	75	Molecular biology, Parasitology and Microbiology, Immunology, Histological techniques and staining methods, Adaptation			100
Paper 8	Practical	75	Instrumentation, Report on Environmental audit, Field work assessment, Biostatistics			100

**Draft Syllabus for three years B.Sc. (General Course), Zoology,  
University of Calcutta, 2016**

<b>PART – I</b>		
<b>PAPER – I</b>		<b>Marks</b>
<b>Group A</b>	Non-Chordate	<b>35</b>
<b>Group B</b>	Cell Biology and Genetics, Molecular Biology	<b>35</b>
<b>Group C</b>	Developmental Biology	<b>30</b>
<b>Total</b>		<b>100</b>
<b>PART – II</b>		
<b>PAPER II</b>		<b>Marks</b>
<b>Group A</b>	Chordate	<b>35</b>
<b>Group B</b>	Ecology, Animal Behavior, Biodiversity and Wildlife	<b>35</b>
<b>Group C</b>	Histology, Endocrinology, Animal Physiology & Biochemistry	<b>30</b>
<b>Total</b>		<b>100</b>
<b>PAPER – III</b>		
<b>Laboratory Course (all Groups)</b>		<b>100</b>
<b>PART – III</b>		
<b>PAPER – IV</b>		<b>Marks</b>
<b>Group A</b>	Applied Zoology	<b>30</b>
<b>Group B</b>	Evolutionary Biology	<b>20</b>
<b>Group C</b>	Parasitology & Immunology	<b>20</b>
<b>Group D</b>	Laboratory course	<b>30</b>
<b>Total</b>		<b>100</b>
<b>Total = 400</b>		

# **UNIVERSITY OF CALCUTTA**

## **SYLLABUS**

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**THREE-YEAR HONOURS  
DEGREE COURSE OF STUDIES**



**MICROBIOLOGY**

**2010**

## Syllabus for Microbiology Honours

### Part I

#### Paper I

##### Group A: Biomolecules

- |         |                    |
|---------|--------------------|
| Unit I  | 1. Stereochemistry |
|         | 2. Carbohydrates   |
|         | 3. Amino acids     |
| Unit II | 1. Protein         |
|         | 2. Nucleic Acids   |
|         | 3. Lipids          |

##### Group B: Biophysical Chemistry and Biometry

- |         |  |
|---------|--|
| Unit I  | 1. Physicochemical properties of water |
|         | 2. Thermodynamics                      |
|         | 3. Microscopy                          |
|         | 4. Radioactivity                       |
| Unit II | 1. Spectroscopy                        |
|         | 2. Biometry                            |

#### Paper II

##### Group A: General Microbiology

- |        |   |
|--------|---|
| Unit I | 1. Development of microbiology                    |
|        | 2. position of microbes                           |
|        | 3. Staining                                       |
|        | 4. Morphology and subcellular structures          |
|        | 5. Bacterial cell wall biosynthesis and structure |



## **Unit II**

- 1. Eukaryotic microbes**
- 2. Microbial nutrition**
- 3. Microbial growth**
- 4. Control of growth of microbes**

## **Group B: Practical**

### **Unit I**

- 1. Operation of Light-Microscope; oil-immersion objective**
- 2. Preparation of culture, media, Cultivation of Microorganisms, Pure-culture, Staining techniques**
- 3. Micrometry**

### **Unit II**

- 1. Qualitative tests of carbohydrates**
- 2. Separation of amino acids**
- 3. Estimation of amino acid**
- 4. Biometry**

# **UNIVERSITY OF CALCUTTA**

## **SYLLABI**

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**THREE-YEAR HONOURS AND GENERAL  
DEGREE COURSES OF STUDIES**



## **PHYSICS**

**2010**

## Honours

### Part – I

**1<sup>st</sup> year :**

**Paper I (100 Marks)**  
Unit-01: 50 Marks- Mathematical Methods I & Mathematical Methods II  
Unit-02: 50 Marks- Waves and Optics I & Electronics I

**Paper IIA (50 Marks)**  
Unit-03: 50 Marks- Classical Mech.I & Thermal Physics I

**Paper IIB (50 Marks)**  
Unit-04: 50 Marks- Laboratory

### Part – II

**2<sup>nd</sup> year :**

**Paper III (100 Marks)**  
Unit-05: 50 Marks- Electronics II & Electricity and Magnetism  
Unit-06: 50 Marks- Electrostatics & Waves and Optics II

**Paper IVA (50 Marks)**  
Unit-07: 50 Marks- Quantum Mech.I & Thermal Physics II

**Paper IVB (50 Marks)**  
Unit-08: 50 Marks- Laboratory

### Part – III

**3<sup>rd</sup> year :**

**Paper V (100 Marks)**  
Unit-09: 50 Marks- Classical Mechanics II & Special Theory of Relativity  
Unit-10: 50 Marks- Quantum Mech.II & Atomic Physics

**Paper VI (100 Marks)**  
Unit- 11: 50 Marks- Nuclear and Particle Physics I & Nuclear and Particle Physics II  
Unit- 12: 50 Marks- Solid State Physics I & Solid State Physics II

**Paper VIIA (50 Marks)**  
Unit- 13: 50 Marks- Statistical Mechanics & Electromagnetic Theory

**Paper VIIB (50 Marks)**  
Unit- 14: 50 Marks- Laboratory

**Paper VIIIA (50 Marks)**  
Unit- 15: 50 Marks- Laboratory

**Paper VIIIB (50 Marks)**  
Unit- 16: 50 Marks- Computer laboratory

## **Paper I**

### **Unit - I**

**MATHEMATICAL METHODS I (25 Marks)**

**LECTURES: 25 + 5 Tutorial**

#### *1. Preliminary Topics*

Infinite sequences and series - convergence and divergence, conditional and absolute convergence, ratio test for convergence. Functions of several real variables - partial differentiation, Taylor's series, multiple integrals. Random variables and probabilities - statistical expectation value, variance; Analysis of random errors: Probability distribution functions (Binomial, Gaussian, and Poisson) (10)

## **B.Sc. (Physics) General Syllabus**

### *PART-I (1<sup>st</sup> Year)*

**Paper IA: (50 Marks): Classical Mechanics and Gravitation, Heat and Thermodynamics**

**Paper IB: (50 Marks): General Properties of Matter, Waves and Vibrations,  
Geometrical Optics**

### *PART-II (2<sup>nd</sup> Year)*

**Paper IIA:(50 Marks): Laboratory**

**Paper IIB:(50 Marks): Electricity and Magnetism**

**Paper IIIA:(50 Marks): Physical Optics, Electronics, Modern Physics**

**Paper IIIB:(50 Marks): Laboratory**

### *PART-III (3<sup>rd</sup> Year)*

**Paper IVA:(50 Marks): Application of Thermodynamics, Energy Sources, Electronics,  
Communications**

**Paper IVB:(50 Marks): Laboratory, Computer Laboratory**

*(Only SI Units to be used)*

### **Paper IA**

#### **Unit I: Classical Mechanics and Gravitation (25)**

1. *Dimensions of Physical Quantities* : Principle of dimensional homogeneity

2. *Vectors* : Axial and polar vectors, dot product and cross product, scalar triple product and vector triple product. Scalar and vector fields --- gradient, divergence and curl, statement of divergence theorem, statement of Stokes' theorem.

3. *Mechanics of a Particle* : (a) Newton's laws of motion, principle of conservation of linear momentum, time and path integral of force, conservative force field, concept of potential, conservation of total energy, equation of motion of a system with variable mass.

(b) Rotational motion, angular velocity, angular acceleration, angular momentum, torque, fundamental equation of rotational motion, principle of conservation of angular momentum, radial and cross-radial acceleration.

4. *Dynamics of Rigid Bodies* : Moment of inertia and radius of gyration - their physical significance, theorems of parallel and perpendicular axes, rotational kinetic energy, calculation of moment of inertia for some simple symmetric systems. Physical significance of MI.

5. *Gravitation* : Gravitational potential and intensity due to thin uniform spherical shell and solid sphere of uniform density, escape velocity.

**UNIVERSITY OF CALCUTTA**

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**THREE-YEAR HONOURS & GENERAL  
DEGREE COURSES OF STUDIES**



**MATHEMATICS  
2010**

## UNIVERSITY OF CALCUTTA

Syllabi of three-year B.Sc.(Hons. & Genl.) Courses in Mathematics, 2010

### MATHEMATICS HONOURS

#### PAPER-WISE DISTRIBUTION:

Paper I	: Module I	and	Module II
Paper II	: Module III	and	Module IV
Paper III	: Module V	and	Module VI
Paper IV	: Module VII	and	Module VIII
Paper V	: Module IX	and	Module X
Paper VI	: Module XI	and	Module XII
Paper VII	: Module XIII	and	Module XIV
Paper VIII	: Module XV	and	Module XVI

### MATHEMATICS HONOURS

#### DISTRIBUTION OF MARKS

<b>MODULE I</b>	: <b>Group A</b> : Classical Algebra (35 marks) <b>Group B</b> : Modern Algebra I (15 marks)
<b>MODULE II</b>	: <b>Group A</b> : Analytical Geometry of Two Dimensions (20 marks) <b>Group B</b> : Analytical Geometry of Three Dimensions I (15 marks) <b>Group C</b> : Vector Algebra (15 marks)
<b>MODULE III</b>	: <b>Group A</b> : Analysis I (40 marks) <b>Group B</b> : Evaluation of Integrals (10 marks)
<b>MODULE IV</b>	: <b>Group A</b> : Linear Algebra (35 marks) <b>Group B</b> : Vector Calculus I (15 marks)

- MODULE V** : **Group A** : Modern Algebra II (15 marks)  
**Group B** : Linear Programming and Game Theory (35 marks)
- MODULE VI** : **Group A** : Analysis II (15 marks)  
**Group B** : Differential Equations I (35 marks)
- MODULE VII** : **Group A** : Real-Valued Functions of Several Real Variables (30 marks)  
**Group B** : Application of Calculus (20 marks)
- MODULE VIII** : **Group A** : Analytical Geometry of Three Dimensions II (15 marks)  
**Group B** : Analytical Statics I (10 marks)  
**Group C** : Analytical Dynamics of A Particle I (25 marks)
- MODULE IX** : **Group A** : Analysis III (50 marks)
- MODULE X** : **Group A** : Linear Algebra II and Modern Algebra II (20 marks)  
**Group B** : Tensor Calculus (15 marks)  
**Group C** : Differential Equation II (15 marks)  
Or  
**Group C** : Graph Theory (15 marks)
- MODULE XI** : **Group A** : Vector calculus II (10 marks)  
**Group B** : Analytical Statics II (20 marks)  
**Group C** : Analytical Dynamics of A Particle II (20 marks)
- MODULE XII** : **Group A** : Hydrostatics (25 marks)  
**Group B** : Rigid Dynamics (25 marks)
- MODULE XIII** : **Group A** : Analysis IV (20 marks)  
**Group B** : Metric Space (15 marks)  
**Group C** : Complex Analysis (15 marks)
- MODULE XIV** : **Group A** : Probability (30 marks)  
**Group B** : Statistics (20 marks)
- MODULE XV** : **Group A** : Numerical Analysis (25 marks)  
**Group B** : Computer Programming (25 marks)
- MODULE XVI** : Practical (50 marks)  $\left\{ \begin{array}{l} \text{Problem : 30} \\ \text{Sessional Work : 10} \end{array} \right.$

# **GENERAL**

(Total 8 modules each of 50 marks)

**MODULE I** : **Group A** : Classical Algebra (20 marks)  
**Group B** : Analytical Geometry of two dimensions (15 marks)  
**Group C** : Vector Algebra (15 marks)

**MODULE II** : **Group A** : Differential Calculus (25 marks)  
**Group B** : Integral Calculus (10 marks)  
**Group C** : Differential Equations (15 marks)

**MODULE III** : **Group A** : Modern Algebra (25 marks)  
**Group B** : Analytical Geometry of three dimensions (25 marks)

**MODULE IV** : **Group A** : Differential Calculus (25 marks)  
**Group B** : Integral Calculus (15 marks)  
**Group C** : Differential Equations (10 marks)

**MODULE V** : **Group A** : Numerical Methods (20 marks)  
**Group B** : Linear Programming (30 marks)

**MODULE VI** : Any **one** of the following groups :

**Group A** : Analytical Dynamics (50 marks)  
**Group B** : Probability & Statistics (50 marks)

**MODULE VII** : Computer Science & Programming (50 marks)

**MODULE V** : Any **one** of the following groups :

**Group A** : A Course of Calculus (50 marks)  
**Group B** : Discrete Mathematics (50 marks)

## **MODULE I**



## Course Curricula

### Semester I

Core papers	Theo.	Prac.	20 credits
C1: Phycology	25	25	(2+2)
C2: Microbiology	50	25	(4+2)
C3: Cell and Molecular Biology	25	25	(2+2)
C4 : Bryophytes, Pteridophytes Gymnosperms and Palaeobotany	50	25	(4+2)

Total marks: 250

### Semester II

Core papers	Theo.	Prac.	20 credits
C5: Mycology and Plant Pathology	50	25	(4+2)
C6: Taxonomy of Angiosperms and Palynology	50	25	(4+2)
C7: Genetics ,Genomics and Proteomics	50	25	(4+2)

#### Supportive paper

C8: Instrumentation	25		(2+0)
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Total marks: 250

### Semester III

Core papers	Theo.	Prac.	22 credits
C9. Plant Physiology and Biochemistry	50	25	(4+2)
C10. Phytochemistry and Pharmacognosy	25	25	(2+2)
C11. Plant Biotechnology	25	25	(2+2)
C12. Plant Anatomy and Developmental Biology	25	25	(2+2)
C13. Plant Ecology	25	25	(2+2)

Total marks: 275

## Semester IV

Supportive paper		Theo.	Prac.	18 credits
C14: Computer applications and Bioinformatics		25	----	(2+0)
-				
C15: Special Paper				
Any one*	Special paper	75	50	(6+4)
	Project work	---	25	(0+2)
	Seminar	---	25	(0+2)
	Grand viva	---	25	(0+2)

**Total marks: 225**

### \* Special Paper

- Sp1. Applied Mycology and Molecular Plant Pathology
- Sp2. Cell Biology, Molecular Genetics and Plant Biotechnology
- Sp3. Plant Physiology, Biochemistry and Molecular Biology
- Sp4. Taxonomy of Angiosperms and Palynology

## Eligibility for Admission

6. A candidate who has passed the 3-year B.Sc. Honours or equivalent examination in Botany and secured a minimum of 50% marks in aggregate ( 45% marks for reserved category ) will be eligible to apply for admission to two-year four-semester M.Sc. course in Botany.

7. Any candidate from any other university or UGC recognized institution passed with any other course should bring an equivalence certificate from Calcutta University.

## Eligibility for appearing in a Semester Examination

8. A candidate will be eligible to appear in a semester examination provided he/she has attended at least 75% of the lectures delivered and laboratory sessions conducted in that particular semester, after his/ her admission to the course.

Candidate whose attendance is less than 75% would have to repeat the semester.

9. All candidates who have secured the required percentage of attendance as defined in regulation 8 shall be called regular candidates.

**UNIVERSITY OF CALCUTTA**

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**THREE-YEAR HONOURS & GENERAL  
DEGREE COURSES OF STUDIES**



**ECONOMICS  
2010**

University of Calcutta  
Syllabus for BA/BSC (Honours and General)  
Effective from the Academic Year 2010-11.

Part I

Structure of the BA/BSC (Honours)  
 Total Marks = 800

Year	Paper No.	Paper Name	Comments	Marks
<b>1<sup>st</sup> Year</b>				<b>200</b>
	Paper IA	Microeconomic Principles		50
	Paper IB	Macroeconomic Principles		50
	Paper IIA	Statistics for Economics		50
	Paper IIB	Mathematics for Economics		50
<b>2<sup>nd</sup> Year</b>				<b>200</b>
	Paper IIIA	Microeconomics		50
	Paper IIIB	Macroeconomics		50
	Paper IVA	Development Theory		50
	Paper IVB	Indian Economy Since Independence		50
<b>3<sup>rd</sup> Year</b>				<b>400</b>
	Paper VA	International Economics		50
	Paper VB	Public Economics		50
	Paper VIA	Comparative Development Experience		50
	Paper VIB	Contemporary Economic Issues: India and West Bengal	<b>Group A (30 Marks):</b> Contemporary Economic Issues – India. <b>Group B (20 Marks):</b> Contemporary Economic Issues- West Bengal.	50
	Paper VIIA	Statistics & Basic Econometrics		50
	Paper VIIB	Applied Economics	<b>Students have option to answer from either Group A or Group B.</b>	

			<p style="text-align: center;"><b>Group A</b> Applications of Economics to Managerial Issues</p> <p style="text-align: center;">or</p> <p style="text-align: center;"><b>Group B</b> Mathematical Economics</p>	
	PaperVIII A	Indian Economic History		50
	PaperVIII B	Term Paper		50

**Guidelines for Term Paper (Paper VIII B)  
of BA/BSc Economics (Honours)**

1. Each student will prepare a term paper not exceeding 5000 words (excluding charts, diagrams, tables etc.).
2. The term paper may be descriptive, exploratory or empirical.
3. The selection of the topic will be from the subjects covered in the undergraduate economics honours syllabus.
4. The term paper will be submitted by the candidates to the respective colleges at least a fortnight before the *viva-voce* examination which will be held at the respective college centres.
5. The board of examiners will consist of one internal and one external examiner.
6. The marks division for the term paper will be as follows: 30 for the written paper and 20 for *viva voce*. The marks of the written paper will be the average given by the internal and external examiners. However, the *viva-voce* will be conducted and the marks awarded by the external examiner only.

## Syllabus for BA/BSC (General)

<b>Paper IA: Microeconomics I</b>		
<b>Full Marks 50: Total Lectures 45</b>		
<b>Unit</b>	<b>Topic</b>	<b>Lectures (No)</b>
<b>1</b>	<b>Economics and Microeconomics</b>	<b>8</b>
	1.1 What is economics? Branches of Economics. What is microeconomics? 1.2 Economic agents and their activities as consumer, producer, investor. Concepts of demand and supply, and markets.	
<b>2</b>	<b>Demand and Consumer Behaviour</b>	<b>19</b>
	2.1 What is demand? Law of Demand - Demand curve and its foundation in consumer behaviour 2.2 Utility Approach: Total and Marginal Utility-Law of Diminishing Marginal Utility -. Relation between Law of Demand and Law of Diminishing Marginal Utility. 2.3 Indifference Curve Approach: Definition and Characteristics-Consumer's,-Equilibrium- income Effect and Substitution Effect-Price Effect. 2.4 Elasticity of Demand: Price Elasticity and Income Elasticity of Demand, Measurement of Price Elasticity.	
<b>3</b>	<b>Producer's Behaviour</b>	<b>18</b>
	3.1 Concept of production –raw material and factors of production-technology – organization of production – large scale vs. small scale production. 3.2 Production technology and production Function – total product, average product, marginal product (with numerical example) - Returns to Factor and Returns to Scale. 3.3 Cost of Production: Real Cost and Opportunity Cost-Fixed and Variable cost; Cost curves -Shape of Cost Curves (Short-run and Long run)-Relation between Average Cost and Marginal Cost. 3.4 Revenue - Total Revenue, Average revenue, Marginal Revenue - Relation between Average Revenue, Marginal Revenue and Price Elasticity of Demand.	
	<b>Readings</b>	
	1. Stonier, A. W. and D.C. Hague: A Text Book of Economic Theory, Longman Group, London. 2. Samuelson, P.A. and William D: Economics, McGraw Hill Book Co., Nordhaus, Singapore. 3. Lipsey, R.G.: An Introduction to Positive Economics, Weidenfeld and Nicholson, London.	

<b>Paper IB: Macroeconomics I</b>		
<b>Full Marks 50: Total Lectures 45</b>		
<b>Unit</b>	<b>Topic</b>	<b>Lectures (No)</b>
1	<b>National Income Accounting</b>	<b>7</b>
	1.1. National Income Concepts: Distinction between Goss Domestic Product, Net Domestic Product and Net National Product 1.2. Different Methods of Measuring National Income.	
2	<b>Money and Banking</b>	<b>14</b>
	2.1 Concept and Functions of Money- Value of Money-Money supply – components of money supply (M1, M2, etc) 2.2 Quantity Theory of Money: Fisher's Version and Cambridge Version 2.3 Banking: Functions of Commercial Banks: Credit Creation –role in money supply –Functions of Central Banks: Credit Control Methods.	
3	<b>Consumption and Investment</b>	<b>14</b>
	3.1 Concept of aggregate consumption – private vs public consumption - Keynesian Consumption Function -Relation between Average and Marginal Propensity to Consumer-Multiplier Theory 3.2 Concept of aggregate investment – components of investment – aggregate investment function and determinants of investment	
4	<b>Government sector</b>	<b>10</b>
	4.1 Transactions of the Government sector -Budget – receipts and expenditures –revenue account and capital account 4.2 Principles of Taxation: Direct and Indirect Taxation –Regressive, Progressive and Proportional Taxation 4.3 Public Debt- Internal & external –purpose and implications	
	<b>Readings</b>	
	1. Stonier, A.W. and D.C. Hague. : A Text Book of Economic Theory,Longman Group, London	
	2. Lipsey & Chrystal : An Introduction to Positive Economics	
	3. Gupta, S.B. : Monetary Economics, S.Chand & Co;New Delhi.	

<b>Paper IIA: Microeconomics II</b>		
<b>Full Marks 50: Total Lectures 45</b>		
<b>Unit</b>	<b>Topic</b>	<b>Lectures (No)</b>
1	<b>Theory of Markets</b>	
	1.2 Concepts of Perfect Competition, Monopoly, Monopolistic Competition, Oligopoly. 1.3 Short-run and Long-run Equilibrium under perfect Competition at the Firm level, as well as industry level. Idea of price discrimination. 1.4 Price and Output Determination under Monopoly.	<b>20</b>
2	<b>Theory of Distribution</b>	<b>25</b>
	2.1 Marginal Productivity Theory of Distribution-Factor Price	

	<p>Determination.</p> <p>2.2 Rent: (a) Ricardian Theory, (b) Modern Theory.</p> <p>2.3 Wage: Distinction between Money Wage and Real Wage-Factors Determining Real Wage-Role of Trade Union in Wage Determination under competitive set up.</p> <p>2.4 Interest: Real and Money Interest Loanable fund and liquidity preference theory of interest.</p> <p>2.5 Profit: Alternative theories of profit.</p>	
	<b>Readings</b>	
	<p>1. Stonier, A. W. and D.C. Hague: A Text Book of Economic Theory, Longman Group, London.</p> <p>2. Samuelson, P.A. and William D: Economics, McGraw Hill Book Co., Nordhaus, Singapore.</p> <p>3. Lipsey, R.G.: An Introduction to Positive Economics, Weidenfeld and Nicholson, London.</p>	

<b>Paper IIB: Macroeconomics II</b>		
<b>Full Marks 50: Total Lectures 45</b>		
<b>Unit</b>	<b>Topic</b>	<b>Lectures (No)</b>
<b>5</b>	<b>Theories of Income and Employment</b>	<b>15</b>
	<p>4.1 Concept of Classical Theory of Employment and output-Say's Law of markets.</p> <p>4.2 Simple Keynesian theory of Income and Employment: Concept of Effective Demand.</p>	
<b>6</b>	<b>Prices and Inflation</b>	<b>15</b>
	<p>6.1 Concept of price index –alternative price indices and measurements of inflation rate</p> <p>6.2 Concept of Inflation, Deflation and Stagflation: Inflationary Gap - Distinction between Demand-pull and Cost-Push Inflation</p> <p>6.3 Anti-Inflationary Monetary and Fiscal Policies -Effects of Inflation</p>	
<b>7</b>	<b>External Sector</b>	<b>15</b>
	<p>7.1 International Trade: Distinction between Internal and International Trade –exports and imports in goods and services.</p> <p>7.2 Basis of Trade: Concepts of absolute advantage and comparative Advantage -Arguments for Free Trade – Argument for Protection.</p>	
	<b>Readings</b>	
	1. Stonier, A.W. and D.C. Hague. : A Text Book of Economic Theory, Longman Group, London	
	2. Lipsey & Chrystal : An Introduction to Positive Economics	
	3. Gupta, S.B.: Monetary Economics, S.Chand & Co; New Delhi.	

<b>Paper IIIA: Indian Economy I</b>		
<b>Full Marks 50 : Total Lectures 45</b>		
<b>Unit</b>	<b>Topic</b>	<b>Lectures</b>



		<b>(No)</b>
1	<b>Indian Economy –An Overview</b>	<b>9</b>
	1.1 The structure of Indian Economy – its sectoral composition, rural-urban dimension –India’s per capita income – relative position relation to developed and underdeveloped economies 1.2 Features and Causes of Underdevelopment of the Indian Economy	
2	<b>NI Trends</b>	<b>8</b>
	National Income of India: Trend, Estimation and Distribution.	
3	<b>Demography</b>	<b>10</b>
	3.1 The trends and pattern of population growth –age distribution – demographic rates and population projection 3.2 The nature of population problem in India and government policies related to population	
4	<b>Dualism</b>	<b>8</b>
	Dualism, in the Indian Economy: Poverty Line-Poverty Eradication Programmes in India.	
5	<b>Indian Planning</b>	<b>10</b>
	5.1. Background for Indian Planning and Planning process and institutions 5.2 Objectives, achievements and failures of India's Five-year Plans (broad outline)	
	<b>Readings</b>	
	1.Dutta, R. & K.P.M. Sundaram : Indian Economy, S. Chand & Co. New Delhi.	
	2.Misra, S.K. & V.K. Puri : Indian Economy, Himalayas Publishing Co. Mumbai	
	3.Agarwal, A.N.: Indian Economy, Vikash Publishing Co. Delhi.	
	4.Gupta, S.B.: Monetary Planning in India Oxford University Press, Delhi.	
	5.Dhar, P.N. : Indian Economy.	

	<b>Paper IIIB: Indian Economy II</b>	
	<b>Full Marks 50: Total Lectures 45</b>	
Unit	<b>Topic</b>	<b>Lectures (No)</b>
1	<b>Indian Agriculture</b>	<b>10</b>
	1.1 Characteristics of Indian Agriculture: Causes of Low Productivity. 1.2 Land Reforms: Meaning, importance. Evaluation of the Programmes. 1.3 New technology and Green Revolution and its effects 1.4 Effects of Economic Reforms on Indian Agriculture.	
2	<b>Indian Industry</b>	<b>10</b>
	2.1 Structure of Indian industry -Role of Cottage, Small-scale and Large-scale Industries in India's development. 2.2 Problems and strategies of industrial development Economic Development -Problems and Solutions. I	

	2.3 Industrial Labour, Industrial Finance, Industrial Policy.	
3	<b>Finance in India</b>	<b>8</b>
	3.1 Financial Markets and Financial system in India 3.2 Banking: Role of Indian Commercial Banks - Credit Control Policy of Reserve Bank of India	
4	<b>Indian Public Finance</b>	<b>10</b>
	4.1 Central and state budgets – revenue account and capital account - Sources of Revenue of Union and State Governments –direct and indirect tax – major heads of expenditures – plan vs. non-plan expenditures 4.2 Union-State Financial Relation – Role of Finance Commission of India.	
5	<b>India's Foreign Trade</b>	<b>7</b>
	5.1 Importance of foreign trade for Indian Economy 5.2 India's Foreign Trade: Change in volume and direction of trade in the post liberalisation period.	
	<b>Readings</b>	
	1. Dutta, R. & K.P.M. Sundaram: Indian Economy, S. Chand & Co. New Delhi.	
	2. Misra, S.K. & V.K. Puri: Indian Economy, Himalayas Publishing Co. Mumbai	
	3. Agarwal, A.N: Indian Economy, Vikash Publishing Co. Delhi.	
	4. Gupta, S.B: Monetary Planning in India Oxford University Press, Delhi.	
	5. Dhar, P.N: Indian Economy.	

<b>Paper IVA: Development Economics I</b>		
<b>Full Marks 50: Total Lectures 45</b>		
<b>Unit</b>	<b>Topic</b>	<b>Lectures (No)</b>
1	Distinction between Economic Growth and Economic Development: Net National Income and Per Capita Income as Growth Indicators- Concept Of HDI.	<b>10</b>
2	Development Planning & its necessity -balanced vs. unbalanced growth. Complementary Roles of Agriculture and Industry -Role of Technology in Agriculture and Industry.	<b>10</b>
3	Population and Economic Development: The Two Way Relation. Domestic Capital Formation in an Underdeveloped Country: The Problems -Incentives for Savings and Investment.	<b>10</b>
4	Foreign Investment: Different forms -Their roles in Economic Development. Role of IMF & World Bank in economic development of the LDCS.	<b>10</b>
5	Gender Related Issues.	<b>5</b>

# UNIVERSITY OF CALCUTTA

*Three-year B.Sc. (Honours & General) Courses of Studies in  
Computer Science effective from the Academic Session 2011-2012*

## **Computer Science Honours Course Course Structure**

Paper	Type/Marks	Group	Title	Periods
<b>Part-I</b>				
I	Theoretical 100	A	Computer Fundamentals	30
		B	Introduction to Basic Electronics	35
		C	Digital System Design	45
		D	Computer Organization-I	40
II	Theoretical 50	A	Section-I: System Software Fundamentals and Operating Systems	50
	Practical 50	B	Section-II : Data Structure-I Hardware	25 150
<b>Part-II</b>				
III	Theoretical 100	A	Discrete Mathematical Structures	75
		B	Numerical Methods and Algorithms	45
		C	Formal Languages and Automata Theory	30
IV	Theoretical 50	A	Section-I : Data Structure-II	30
	Practical 50	B	Section-II : Programming through C Language Software : C Language	45 150
<b>Part-III</b>				
V	Theoretical 100	A	Microprocessor	50
		B	Computer Organization- II	50
		C	Computer Networks	50
VI	Theoretical 100	A	Object-Oriented Programming	30
		B	Software Engineering	30
		C	Computer Graphics	30
		D	Database Management System	60
VII	Practical 100	A	Hardware : Microprocessor Programming & I/O Interfacing	100
		B	Software: RDBMS	50
VIII	Practical 100	A	Object-Oriented Programming	100
		B	UNIX Shell Programming	50

**Text Books :**

1. SQL / PL / SQL The Programming language of Oracle by Ivan Bayross, BPB.
2. Unix Shell Programming by Y. Kanetkar, BPB.
3. Your UNIX: The Ultimate Guide by Sumitava Das.

**Computer Science General****SUMMARY OF PERIOD DISTRIBUTION : Total Marks : 400**

Paper (F.M)	Group (F.M)	Type	Minimum Number of Periods	
			Theoretical(T)	Practical(P)
*COURSE WORK FOR PART-I EXAMINATION				
I(100)	*	T	120	
*COURSE WORK FOR PART-II EXAMINATION				
II(100)	*	T	120	
III(100)		P		120
*COURSE WORK FOR PART-III EXAMINATION				
IV(100)	A(50) B(50)	T P	60	72

\* Shown within the syllabus; T-Theoretical, P-Practical

F.M: Full Marks

Note: Figures with in( ) below indicate number of periods allotted for that topic.

**Part – I****PAPER I (THEORETICAL) : 100 Marks****Group A: General Concepts****(20 Periods)**

*Information:* Definition, Categories, Data: Storage, Retrieval and Processing.

*Compute: Hardware* – CPU, Primary & Secondary Storage, Cache Memory, I/O Devices.

*Software:* Classification System and application; Stored Program Concept and Von-Neumann Architecture;

*Evolution:* types – supercomputers, mainframes, minis and workstations, PC's, Parallel Machines.

*Generations of programming languages:* low level language, assembly level language, High Level language, 4GL

*Application Software:* User specific application development; standard packages.

*System Software:* Classifications – Operating Systems(OS); Translators – Compilers and Interpreters, Preprocessors, Assemblers, Macro Assemblers, Loaders, Linkers, Line and Screen Editors, other utilities.

*Virus:* Concept, detection and protection.

*Multimedia:* Basic concept, associated hardware and software.

*Object Oriented Paradigm:* Basic characteristics, definition, brief comparison with other types of programming paradigms.

**Group B: Digital logic Design****(35 Periods)**

Number System, Bits and Byte, Base conversion, (r-1)'s and r's complement, Fixed point, Floating point representation, ASCII, EBCDIC, Boolean Algebra;

Combinational Logic: AND, OR, NAND, NOR, XOR gates; adder, multiplexer, demultiplexer /decoder, encoder. (only conceptual study with block diagram and truth/state table)

Sequential Logic: flip-flops, registers, counters (synchronous & asynchronous) (only conceptual study with block diagram and truth/state table)

**Group C: Computer Architecture and Organization****(35 Periods)**

*Central Processing Unit (CPU)*

*ALU:* Basic Structure of ALU, Addressing Mode, Instruction formats, Handling of interrupts and subroutines.

*Control Unit:* Instruction and Execution Cycle; Control of sequence, jump and branch instruction; shift instruction.

*I/O:* Controller, interrupt, DMA, Memory mapped I/O. Standard buses. (brief description of basic characteristics, principle of operation related parameters, and comparative study where applicable)

*Memory:* Memory devices (brief description of basic characteristics, principle of operation related parameters, and comparative study where applicable), static and dynamic RAM, ROM, cache; secondary memory (floppy disc, hard disc, tape, CD ROM, DVD).

#### **Group D: Operating System**

**(30 Periods)**

*Operating System:* Definition, types of Operating System, functions of Operating System, SPOOLing, Buffering.

*Process:* Process concept, Process States, Process control block.

*Process scheduling:* Scheduling queues, Scheduler, Scheduling criteria, Long term scheduling, Short term scheduling (CPU scheduling - preemptive, non-preemptive), Medium term scheduling.

*Context Switch.*

*Memory Management:* Purpose, logical vs physical address space, overlays, swapping, contiguous memory location, memory protection, memory allocation, fragmentation, paging, associative register, segmentation, segmentation with paging, Virtual memory: Concept, demand paging and page fault (definitions only).

#### *Distribution of Questions :*

Q1. (Compulsory – 20 marks, any ten questions to be answered out of fifteen, each carrying 02 marks).

No. of questions (Group) : 03(A), 04(B), 04(C), 04(D)

Q2 to Q9. Five questions to be answered taken at least one from each group. Each group contains two questions with 16 marks each.

All questions may have smaller subdivisions.

#### **Text Books:**

1. Introduction to Computer Science by P.K.Sinha, P Sinha, BPB Publication.
2. Computer Fundamentals by Anita Goyal, Pearson Education.
3. Computer Architecture and Organizations 2<sup>nd</sup> Edition, J. P. Hayes, TMH
4. Computer System Architecture by M. Morris Mano, PHI
5. Digital logic and computer design by M. Morris Mano, PHI
6. Digital Principle and Applications by Malvino & Leach, TMH
7. Operating Systems by H.M.Deitel, 2<sup>nd</sup> Edition, Pearson Education
8. Operating System Concepts, A.Silberschatz, Peter B. Galvin, G. Gagne, 6th Ed., John Wiley & Sons, Inc.

## **Part - II**

### **PAPER-II (THEORETICAL): 100 Marks**

#### **Group A : Algorithms & Data Structure**

**(45 Periods)**

*Algorithms and Problem Solving:* Algorithm definition and characteristics; algorithm representation technique – flowchart, in words (stepwise), pseudo code, structured constructs – simple structure, selection, repetition, indentation and comments, Recursive and non-recursive algorithms, Complexity, Asymptotic notation (definition, basic properties and use)

*Data Structures:* Data types and structures – definition. Concepts of sequential and linked allocation.

*Linear Structures (concept and implementation):* Array, Stack, Queue.

*Non-linear structures:* Graph, Binary Tree, Binary Search Tree (definition, illustration and basic properties).

*Sorting and Searching:* Selection sort, insertion sort, bubble sort, linear search, binary search.

#### **Group B: Software Engineering: Models and Introduction to Analysis & Design**

**(25 Periods)**

Introduction, *Software life cycle models:* Waterfall model, Iterative waterfall model, Spiral model, Software Requirement Specifications (SRS), Data Flow Diagram (DFD).

**Group C: Database Management System****(50 Periods)**

*Overview:* File management system and DBMS, DBMS architecture, Data Dictionary, DDL, DML, DBA (Definition and Role of DBA).

*Data Models:* Network, Hierarchical, Relational models and their comparison

*Relational Model:* Definition and properties, Keys of different types

*Relational Data Design:* ER diagram to relational schema, Normalization (upto 3NF)

*Query Language:* SQL – basic concepts.

**Distribution of Questions :**

Q1. (Compulsory – 20 marks, any ten questions to be answered out of fifteen, each carrying 02 marks).

No. of questions (Group) : 06(A), 03(B), 06(C)

Q2 to Q9. Five questions to be answered taken two from group A (out of 3 questions), one question from group B (out of 2 questions), and two questions from group C (out of 3 questions).

Each question carries 16 marks.

All questions may have smaller subdivisions.

**Text Books:**

1. Data Structure by Liptsuitz, S. Outline Series
2. Data Structure by Ellis Horowitz, Sartaz Sahani, Galgotia
3. Data Structure Using C by S. K. Bandyopadhyay and K. N. Dey, Pearson Education
4. Data Structures and Algorithm Analysis in C by Mark Allen Weiss, Pearson Education
5. Introduction to data structure by Trembly & Sorenson, TMH
6. Software Engineering by Pressman
7. Fundamental of Software Engineering by Rajib Mall, PHI.
8. Database System Design by Elmasri, Navathe, Somayajulu, Gupta, Pearson Education
9. Database Systems: Concept, Design and Application by S. K. Singh, Pearson Education
10. Database System Concept by Korth, Silberschatz, Mc GrawHill
11. An Introduction to Database Systems by C.J. Date, A.Kannan, S.Swamynathan, Pearson Education
12. Relational Database Design by Jan L. Harrington, an imprint of Elsevier

**Paper-III (Practical) : 100 Marks****Group A: Word processing, Document Preparation & Presentation and Spreadsheet (24 Periods)****Group B: Programming in C****(48 Periods)**

*Basic Structure:* Character set, keywords, identifiers, constants, variables and type declaration, preprocessor.

*Operators:* Arithmetic, relational, logical, Assignment, Increment and Decrement, ternary, comma, casting; operator precedence and associativity; type conversion, character I/O, Escape sequence and formatted I/O.

*Control Structure:* if, if-else, switch case, break, continue.

*Loop Structure:* for, while, do-while.

*Arrays:* One-dimensional and two-dimensional, Different types of uses. String handling: concatenation, copy, comparison, string functions.

*User defined functions:* prototype, needs; argument passing; return value and types, recursion.

*Structures:* Initialization; arrays of a structure, arrays within structures, nested structure, size of structures.

*Pointers:* Declaration and initialization; operators; pointer arithmetic, accessing variables, pointer & arrays, strings, dynamic storage allocation.

**Group C: Database Design and Applications****(48 Periods)**

The student should be familiar with at least one standard commercial RDBMS software under desktop or multiuser environment. Topic of works should include :

*SQL:* creation and modification of databases, insert, delete, update operations, creating view, queries, nested queries, aggregate function.

*Validation:* Correctness, Integrity.

*Distribution of Questions :*

Group A: One question to be answered out of three	10 marks
Group B: One question to be answered out of five	30 Marks
Group C: One question to be answered out of four	30 marks
Viva: 20 marks	
Sessional: 10 marks	

*Duration of Examination – 6 hours*

Note : Problems to be assigned to a student by drawing lots in a manner similar to that followed in other practical examinations. The sessional work must be submitted in a word processed version with computer printout of problems, algorithms, listings, output, discussions, graphs, charts, figures. Handwritten output will not be accepted under any circumstances.

Questions will not be package/product specific.

**Text Books:**

1. Special Edition using Microsoft Office 2003 by Ed Bott & Woody Leonhard, Amazon Publication.
2. Office 2007 all-in-one Desk Reference for Dummies by P. Weverka, Amazon Publication.
3. C programming essentials by K. N. Dey and S. K. Bandyapadhyay, Pearson Education.
4. Programming in C by E Balagurusamy, TMH
5. Let us C by Y. Kanetkar, BPB Publication
6. Teach Yourself SQL & PL/SQL using Oracle 8i & 9i by Ivan Bayross, BPB Publication.

### **Part III**

**Paper IV : 100 Marks (Theoretical 50, Practical 50)**

**Group A (Theoretical) Full Marks : 50**

**Communication and Computer Networks**

**(60 Periods)**

*Communication Concepts:* Analog and Digital communication – basic concept and comparison. Signal types frequency spectrum, strength, bandwidth, data rate, channel capacity. S/N ratio, modulation and demodulation FSK, ASK.

*Transmission media (brief idea, characteristics, comparison) :* Guided (twisted pair, co-axial, optical fiber) and unguided (microwave, satellite-geo synchronous and low-orbit, VSAT).

*Audio and Video communication systems :* Analog and digital telephone, AM & FM radio, cable TV network, ISDN, paging, cordless and cellular phones, ATM.

*Computer Networks :* Distributed processing and resource sharing concepts. Classes – LAN, MAN, WAN

*Architecture – OSI , TCP/IP and http protocol – brief study.* Basic idea of protocols, routing, congestion control.

*LAN :* Ethernet and Token Ring topology (principle of operation, characteristics, comparison). High speed LANs Internetworking Modems, bridges and routers, connectivity concepts. Network security.

*The Internet :* basic idea, DNS and URL, IP address, browsers

*E-mail :* Architecture and services.

*Distribution of questions :*

Q1. (Compulsory – 10 marks, any five questions to be answered out of eight, each carrying 02 marks)

Q2 to Q9. Any five questions to be answered out of eight, each carrying 08 marks.

Questions may have smaller subdivisions.

**Text Books :**

1. Data Communications and Networking by Behrouz A. Forouzan, 2<sup>nd</sup> or 4<sup>th</sup> Edition, TMH
2. Data and Computer communication by William Stallings, 6<sup>th</sup> Edition, Pearson Education
3. Computer Networks by Tanenbaum, Pearson Education

# UNIVERSITY OF CALCUTTA

SYLLABI

FOR

THREE-YEAR B.Sc. HONOURS & GENERAL  
COURSES OF STUDIES



Chemistry

2010

w.e.f. 2010-2011



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Chemistry General: Syllabus Scheme in modular form

Course names and distribution

PART – I (Year 1), total marks = 100 (Theory = 100)

CGT 11a, 11b each 25 marks, Theory

CGT 12a, 12b each 25 marks, Theory

PART – II (Year 2), total marks = 200 (Theory = 100, Practical = 100)

CGT 21a, 21b each 25 marks, Theory

CGT 22a, 22b each 25 marks, Theory

CGP 23 50 marks, Practical

CGP 24 50 marks, Practical

PART – III (Year 3), total marks = 100 (Theory = 75, Practical = 25)

CGT 31a, 31b, 31c each 25 marks, Theory

CGP 32 25 marks, Practical

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Abbreviations:

CGT: Chem General Theory; CGP: Chem General Practical

First digit refers to year, second to paper

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Each CGT Exam = 1½ hr for 50 marks, or as stated later

Each CGP Exam = 3 hr for 25/50 marks on each day, or as stated later

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Notes:

1. A Theory module of 25 marks would contain units I (marks = 15) and II (marks = 10).

2. Number of class hours = number of marks (Theory)

Number of class hours = 2-3 times the number of marks (Practical)

# C.U. B.Sc. BOTANY (HONOURS) SYLLABUS, 2010

## PART I : 200 MARKS

(THEORETICAL -150 and PRACTICAL – 50)

### PAPER I (THEORETICAL) 100 MARKS 4 Hours

Algae	25 Marks (20 Periods)
Microbiology	25 Marks (20 Periods)
Fungi & Lichen	25 Marks (20 Periods)
Plant Pathology	25 Marks (20 Periods)

### PAPER IIA (THEORETICAL) 50 MARKS 2 HOURS

Bryophytes	20 Marks (16 Periods)
Palaeobotany & Palynology	20 Marks (16 Periods)
Embryology	10 Marks (8 Periods)

### PAPER IIB (PRACTICAL) 50 MARKS 4 HOURS

1. Work out on Algae	12 Marks
2. Work out on Fungi	12 Marks
3. Identification with reasons                      3x5 = (Algae-1,Fungi-1, Lichen-1& Bryophytes-2)	15 Marks
4. Laboratory Records (Laboratory note books– 4, Slides-2)	6 Marks
5. Viva	5 Marks

**Module I: Algae + Microbiology**

**Module II: Fungi & Lichen + Plant Pathology**

**Module III: Bryophyte+ Palaeobotany & Palynology+ Embryology**

**Module IV: Work out on Algae & Fungi + Identification of Algae,  
Fungi, Lichen, Bryophytes + Laboratory Records + Viva.**

**PART II : 200 MARKS**  
**(THEORETICAL -150 and PRACTICAL – 50)**

**PAPER III (THEORETICAL) 100 MARKS 4 HOURS**

Pteridophytes	25 Marks (20 Periods)
Gymnosperms	25 Marks (20Periods)
Ecology and Plant Geography	25 Marks (20 Periods)
Anatomy	25 Marks (20 Periods)

**PAPER IVA (THEORETICAL) :50 MARKS 2 HOURS**

Morphology of Angiosperms	10 Marks (8 Periods)
Taxonomy of Angiosperms	40 Marks (32 Periods)

**PAPER IVB (PRACTICAL): 50 MARKS 4 HOURS**

1. Workout on Pteridophytes	8 Marks
2. Workout on Angiosperms	12 Marks
3. Spot Identification [1.5 x4]	6 Marks
4. Identification with reasons (2 x 4) = (Pteridophyte – 1, Gymnosperms – 2, Palaeobotany/Palynology–1,)	8 Marks
5. Laboratory Records	5 Marks
6. Field Records (Field note book–3, Herbarium specimens–3)	6 Marks
7. Viva	5 Marks

**Module V: Pteridophytes + Gymnosperms**

**Module VI: Ecology & Plant Geography + Anatomy**

**Module VII: Morphology of Angiosperms + Taxonomy of Angiosperms**

**Module VIII: Work out on Pteridophytes & Angiosperms + Spot Identification of Angiosperms + Identification (Pteridophytes + Gymnosperms + Palaeobotany/Palynology) + Laboratory Records + Field Records (Field note book + Herbarium Specimens) + Viva.**

### **PART III : 400 MARKS**

**(THEORETICAL -200 and PRACTICAL – 200)**

#### **PAPER V (THEORETICAL): 100 MARKS 4 HOURS**

Biochemistry	35 Marks (28 Periods)
Pharmacognosy	15 Marks (12 Periods)
Plant Physiology	50 Marks (40 Periods)

#### **PAPER VI (THEORETICAL) : 100 MARKS 4 HOURS**

Cell Biology	20 Marks (16 Periods)
Plant Breeding & Biometry	15 Marks (12 Periods)
Plant Biotechnology	15 Marks (12 Periods)
Genetics & Molecular Biology	50 Marks (40 Periods)

**Module IX: Biochemistry + Pharmacognosy**

**Module X: Plant Physiology**

**Module XI: Cell Biology + Plant Breeding & Biometry + Plant  
Biotechnology**

**Module XII: Genetics & Molecular Biology**

**UNIVERSITY OF CALCUTTA**  
**SYLLABUS**  
**FOR**  
**THREE-YEAR B.Sc. GENERAL COURSE**  
**UNDER 1+1+1 SYSTEM**  
**OF EXAMINATION**



**BOTANY 2010**

**Syllabus for three-year B.Sc. Botany General Course**  
**(With effect from 2010-2011)**

**PART-I : Full Marks-100**

## Paper-I (Theoretical)

Marks-100

### Module I:

[50 marks]

Microbiology, Algae, Fungi, Plant Pathology, Bryophytes.

### Module II:

[50 marks]

Pteridophytes, Gymnosperms, Palaeobotany & Palynology, Angiosperms (Morphology & Embryology), Taxonomy.

## **PART II : Full Marks-200 (Theoretical-100 & Practical-100)**

## Paper-II (Theoretical)

Marks-100

### Module III:

50 Marks

Anatomy, Cell Biology and Genetics.

### Module IV:

50 marks

Biochemistry and Plant Physiology, Economic Botany, Ecology.

## PAPER-III (Practical)

Full Marks-100

(Each module to be conducted on separate days)

### Module V

4 Hours: Marks 50

1. Work out on Algae/Fungi (anyone) 9
2. Work out on Angiosperms 12
3. Identification: (2 x 7) 14  
Algae/Fungi-1, Bryophyte-1, Pteridophyte-1, Gymnosperm-1,  
Morphology-1, Taxonomy-2 (species and family).
4. Submission: Laboratory records (laboratory note-book, slides) and Field records (field note book, herbarium sheets). (5+5) = 10
5. Viva-voce 5

### Module VI

4 Hours: Marks 50

1. Plant Physiology Experiment	12
2. Anatomy	12
3. Cell Biology	10
4. Identification: (3x2)    Anatomy-1, Cytology-1	6
5. Submission: Laboratory records	5
5. Viva-voce	5

**PART III : Full Marks-100  
(Theoretical-70 & Practical-30)**

**Paper-IVA (Theoretical) 3 Hours: Marks 70**

**Module VII Marks- 70**

Biofertilizer, Mushroom, Plant Disease Control, Plant Breeding, Biometry, Plant Tissue Culture, Recombinant DNA Technology, Pharmacognosy

**PAPER - IVB (Practical) Marks-30**

**Module VIII 3 Hours: Marks-30**

1. Microbiology	5
2. Biometry	8
3. Demonstration of a laboratory instrument	4
4. Identification of medicinal plants (2 x 2)	4
5. Submission (Laboratory note book & Field report)	4
6. Viva-voce	5



**Syllabus and Regulations**  
**for**  
**2-Year, 4-Semester M. Sc. Course**  
**in**  
**CHEMISTRY**



**Scottish Church College**  
**Kolkata**

**Affiliated to**  
**University of Calcutta**

**July 2013**

# Course Curricula

## Semester-I

### General Papers

#### Paper- I: CHEM(G)-11: Inorganic Chemistry General-1(80 Marks)

Group-A Theoretical : (50 Marks)		Group-B : Practical (30 Marks)	
Unit-1 (18M)	<b>Symmetry, Group Theory and Bonding</b>	Unit-1 (20M)	Quantitative Inorganic Analysis
Unit-2 (16M)	<b>Coordination Chemistry I</b>	Unit-2 (5M)	Viva-voce
Unit-3 (16M)	<b>Chemistry of Elements I</b>	Unit-3 (5M)	Lab. Records including Internal Assessment

#### Paper- II: CHEM(G)-12: Organic Chemistry General-1(80 Marks)

Group-A Theoretical : (50 Marks)		Group-B : Practical (30 Marks)	
Unit-1 (18M)	<b>Bonding in Organic Compounds</b>	Unit-1 (20M)	Qualitative Organic Analysis 1
Unit-2 (16M)	<b>Stereochemistry and Conformational Analysis</b>	Unit-2 (5M)	Viva-voce
Unit-3 (16M)	<b>Heterocyclic Chemistry 1</b>	Unit-3 (5M)	Lab. Records including Internal Assessment

#### Paper- III: CHEM(G)-13: Physical Chemistry General-1 (90 Marks)

Group-A: Theoretical (50 Marks)		Group-B : Practical (40 Marks)	
Unit-1 (18M)	<b>Quantum Mechanics</b>	Unit-1 (15M)	Physical Chemistry Experiments
Unit-2 (16M)	<b>Atomic Spectroscopy</b>	Unit-2 (5M)	Viva-voce
Unit-3 (16M)	<b>Surface Phenomena</b>	Unit-3 (5M)	Lab. Records
		Unit-4 (5M)	Internal Assessment
		Unit-5 (10M)	CAC-1

CAC: Computer Applications in Chemistry

## Semester-II

### General Papers

#### Paper- IV: CHEM(G)-21: Inorganic Chemistry General-2(80 Marks)

Group-A : Theoretical (50 Marks)		Group-B : Practical (30 Marks)	
Unit-1 (16M)	<b>Statistical error, Electrochemical analyses, Radiochemical and Environmental analysis</b>	Unit-1 (20M)	Semi-Micro Qualitative Inorganic Analysis
Unit-2 (16M)	<b>Bioinorganic Chemistry 1</b>	Unit-2 (5M)	Viva-voce
Unit-3 (18M)	<b>Organometallic Chemistry 1</b>	Unit-3 (5M)	Lab. Records including Internal Assessment

#### Paper- V: CHEM(G)-22:Organic Chemistry General-2(80 Marks)

Group-A : Theoretical (50 Marks)		Group-B: Practical (30 Marks)	
Unit-1 (18M)	<b>Pericyclic Reactions 1</b>	Unit-1 (20M)	Quantitative Organic Analysis
Unit-2 (16M)	<b>Synthetic Methodology and Polymerization Reactions</b>	Unit-2 (5M)	Viva-voce
Unit-3 (16M)	<b>Natural Products 1</b>	Unit-3 (5M)	Lab. Records including Internal Assessment

#### Paper- VI: CHEM(G)-23: Physical Chemistry General-2(90 Marks)

Group-A :Theoretical (50 Marks)		Group-B : Practical (40 Marks)	
Unit-1 (18M)	<b>Statistical Thermodynamics</b>	Unit-1 (15M)	Experiment
Unit-2 (16M)	<b>Chemical Kinetics</b>	Unit-2 (5M)	Viva-voce
Unit-3 (16M)	<b>Molecular Spectroscopy</b>	Unit-3 (5M)	Lab. Records
		Unit-4 (5M)	Internal Assessment
		Unit-5 (10M)	CAC-2

CAC: Computer Applications in Chemistry

**Semester-III****Special Papers****Inorganic Chemistry / Organic Chemistry / Physical Chemistry****Inorganic Chemistry Special****Paper- VII: CHEM(IS)-31: (85 Marks) : Special Paper-IS-1**

Group-A: Special Theoretical-1 (50 Marks) <i>(Common with Physical Special)</i>		Group-B Special Practical (35 Marks) Synthesis and Characterization of Complex Materials	
Unit-1 (18M)	<b>Group theory and its Applications in Spectroscopy</b>	Unit-1 (20M)	Analysis of Complex Materials
Unit-2 (16M)	<b>Advanced Organometallic Chemistry</b>	Unit-2 (5M)	Viva-voce
Unit-3 (16M)	<b>Nuclear Chemistry</b>	Unit-3 (5M)	Lab. Records
		Unit-4 (5M)	Internal. Assessment

**Paper- VIII: CHEM(IS)-32: (85 Marks) : Special Paper-IS-2**

Group-A: Special Theoretical-2 (50 Marks)		Group-B Special Practical (35 Marks) Analysis of Complex Materials	
Unit-1 (18M)	<b>Chemistry of Elements 2: Comparative Accounts</b>	Unit-1 (20 M)	Experiment
Unit-2 (16M)	<b>Inorganic Rings, Cages and Clusters</b>	Unit-2 (5M)	Viva-voce
Unit-3 (16M)	<b>Inorganic Reaction Mechanism</b>	Unit-3 (5M)	Lab. Records
		Unit-4 (5M)	Internal Assessment

**Paper- IX: CHEM(IS)-33 (80 Marks) : Special Paper IS-3**

Group-A Special Theoretical-3 (50 Marks)		Group-B Special Practical (30 Marks) Spectroscopic Studies of Model Compounds	
Unit-1 (18M)	<b>Spectroscopy 1:NMR, EPR .</b>	Unit-1(15M)	Experiment
Unit-2 (16M)	<b>Spectroscopy2:ORD/CD,NQR, Mossbauer</b>	Unit-2 (5M)	Viva-voce
Unit-3 (16M)	<b>Spectroscopy 3 I.R., Raman, Mass, PES, ESCA</b>	Unit-3 (5M)	Lab. Records
		Unit-4 (5M)	Internal Assessment

**Semester-III**

**Organic Chemistry Special**

**Paper- VII: CHEM(OS)-41 (85Marks): Special Paper OS-1**

Group-A: Theoretical (50 Marks)		Group-B : Practical (35 Marks)	
Unit-1 (18M)	<b>Spectroscopy</b>	Unit-1 (20M)	Multi-step Organic Synthesis
Unit-2 (16M)	<b>Techniques of Chemical Separation</b>	Unit-2 (5M)	Viva-voce
Unit-3 (16M)	<b>Green Chemistry and Nanoscience</b>	Unit-3 (5M)	Lab. Records
		Unit-4 (5M)	Internal Assessment

**Paper- VIII: CHEM(OS)-42 (85 Marks): Special Paper OS-2**

Group-A: Theoretical (50 Marks)		Group-B : Practical (35 Marks)	
Unit-1 (18M)	<b>Organometallic Chemistry of Transitional Elements</b>	Unit-1 (20M)	Qualitative Organic Analysis 2
Unit-2 (16M)	<b>Synthetic Methodology 2</b>	Unit-2 (5M)	Viva-voce
Unit-3 (16M)	<b>Advanced Pericyclic Reactions</b>	Unit-3 (5M)	Lab. Records
		Unit-4 (5M)	Internal Assessment

**Paper- IX: CHEM(OS)-43 :(80 Marks) : Special Paper OS-3**

Group-A :Theoretical (50 Marks)		Group-B : Practical (30 Marks)	
Unit-1 (18M)	<b>Bioorganic Chemistry</b>	Unit-1(15M)	Chromatographic Separation Techniques and Spectroscopic Studies of Model Compounds
Unit-2 (16M)	<b>Supramolecular Chemistry</b>	Unit-2 (5M)	Viva-voce
Unit-3 (16M)	<b>Chemistry of Natural Products 2 (Terpenoids and Carotenoids, Alkaloids, Coumarins and Flavonoids, Steroids, Porphyrins, Prostaglandins)</b>	Unit-3 (5M)	Lab. Records
		Unit-4 (5M)	Internal Assessment

**Semester-III**

**Physical Chemistry Special**

**Paper- VII: CHEM(PS)-41 (85 Marks) : Special Paper PS-1**

Group-A: Theoretical (50 Marks)		Group-B : Practical (35 Marks)	
Unit-1 (18M)	<b>Equilibrium Statistical Mechanics and Non-Equilibrium Thermodynamics</b>	Unit-1 (20M)	Experiment
Unit-2 (16M)	<b>Advanced Quantum Mechanics-I</b>	Unit-2 (5M)	Viva-voce
Unit-3 (16M)	<b>Mathematical Methods in Chemistry</b>	Unit-3 (5M)	Lab. Records
		Unit-4 (5M)	Internal Assessment

**Paper- VIII: CHEM(PS)-32: (85Marks) : Special Paper PS-2**

Group-A: Theoretical (50 Marks)		Group-B : Practical (35 Marks)	
Unit-1 (18M)	<b>Advanced Quantum Mechanics-II</b>	Unit-1 (20M)	Experiment
Unit-2 (16M)	<b>Photochemistry-I</b>	Unit-2 (5M)	Viva-voce
Unit-3 (16M)	<b>Polymers</b>	Unit-3 (5M)	Lab. Records
		Unit-4 (5M)	Internal Assessment

**Paper- IX: CHEM(PS)-33 :(80 Marks) : Special Paper PS-3**

Group-A :Theoretical (50 Marks)		Group-B : Practical (30 Marks) Computer Applications in Chemistry	
Unit-1 (18M)	<b>Advanced Quantum Mechanics-III</b>	Unit-1 (15M)	Programming
Unit-2 (16M)	<b>Group Theory-I</b>	Unit-2 (5M)	Viva-voce
Unit-3 (16M)	<b>Electrochemistry</b>	Unit-3 (5M)	Lab. Records
		Unit-4 (5M)	Internal Assessment

**Semester-IV**

**Special Papers**

**Inorganic Chemistry / Organic Chemistry / Physical Chemistry**

**Inorganic Chemistry Special**

**Paper- X: CHEM(IS)-41: (75 Marks) : Special Paper IS-4**

Group-A: Special Theoretical-1 (50 Marks)		Group-B Special Practical (25 Marks) Analysis of Complex Materials	
Unit-1 (18M)	<b>Group theory and its Applications in Bonding</b>	Unit-1 (15M)	Advanced Physico-chemical Experiments
Unit-2 (16M)	<b>Advanced Bioinorganic Chemistry</b>	Unit-2 (5M)	Lab. Records
Unit-3 (16M)	<b>Structure and Properties of Solids</b>	Unit-3 (5M)	Internal Assessment

**Paper- XI: CHEM(IS)-42: (75 Marks) : Special Paper IS-5**

Group-A: Special Theoretical-2 (50 Marks)		Group-B : Practical (25 Marks)	
Unit-1 (18M)	<b>Synthetic methodology for transition and non-transition metal compounds</b>	Unit 1 (25 Marks)	Grand Viva-Voce Including All Semester Practical Courses
Unit-2 (16M)	<b>Magnetochemistry</b>		
Unit-3 (16M)	<b>Complex Equilibria</b>		

**Paper- XII: CHEM(IS)-43 (100 Marks) : Special Paper IS-6**

Group-A Special Theoretical-3 (50 Marks)		Group-B Special Practical (50 Marks)	
Unit-1 (18M)	<b>Analytical techniques: Isolation, Characterization and Structure Determination</b>	Unit-1(30M)	Project Dissertation
Unit-2 (16M)	<b>Supramolecular Chemistry</b>	Unit-2(20M)	Seminar
Unit-3 (16M)	<b>Chemistry of Elements 3</b>		

**Semester-IV**

**Organic Chemistry Special**

**Paper- X: CHEM(OS)-41 (75Marks): Special Paper OS-4**

Group-A: Theoretical (50 Marks)		Group-B : Practical (25 Marks)	
Unit-1 (18M)	<b>Photo Organic Chemistry and Free Radical Reactions</b>	Unit-1 (15M)	Separation, Purification and Identification of Organic Compounds in Binary Mixture
Unit-2 (16M)	<b>Advanced Spectroscopy</b>	Unit-2 (5M)	Lab. Records
Unit-3 (16M)	<b>Advanced Stereochemistry</b>	Unit-3 (5M)	Internal Assessment

**Paper- XI: CHEM(OS)-42 (75 Marks): Special Paper OS-5**

Group-A: Theoretical (50 Marks)		Group-B : Practical (25 Marks)	
Unit-1 (18M)	<b>Advanced Organic Synthesis</b>	Unit 1 (25 Marks)	Grand Viva-Voce Including All Semester Practical Courses
Unit-2 (16M)	<b>Oxidation and Reduction of Functional Groups</b>		
Unit-3 (16M)	<b>Dynamic Aspects of Stereochemistry</b>		

**Paper- XII: CHEM(OS)-43 :(100 Marks) : Special Paper OS-6**

Group-A :Theoretical (50 Marks)		Group-B : Practical (50 Marks)	
Unit-1 (18M)	<b>Heterocyclic Chemistry 2</b>	Unit-1(30M)	Project Dissertation
Unit-2 (16M)	<b>Chemistry of Natural Products 3 (Biogenesis and Biosynthesis)</b>	Unit-2(20M)	Seminar
Unit-3 (16M)	<b>Medicinal Chemistry</b>		



**Semester-IV**

**Physical Chemistry Special**

**Paper- X: CHEM(PS)-41 (75 Marks) : Special Paper PS-4**

Group-A: Theoretical (50 Marks)		Group-B : Practical (25 Marks) Computer Applications in Chemistry	
Unit-1 (18M)	<b>Quantum Statistics</b>	Unit-1 (15M)	Programming
Unit-2 (16M)	<b>Molecular Interactions</b>	Unit-2 (5M)	Lab Records
Unit-3 (16M)	<b>Solid State Chemistry</b>	Unit-3 (5M)	Internal Assessment

**Paper- XI: CHEM(PS)-42: (75Marks) : Special Paper PS-5**

Group-A: Theoretical (50 Marks)		Group-B : Practical (25 Marks)	
Unit-1 (18M)	<b>Group Theory-II</b>	Unit-1 (25M)	Grand Viva-Voce including All Semester Practical Courses
Unit-2 (16M)	<b>Photochemistry-II</b>		
Unit-3 (16M)	<b>Advanced Molecular Spectroscopy-I</b>		

**Paper- XII: CHEM(PS)-43 :(100 Marks) : Special Paper PS-6**

Group-A :Theoretical (50 Marks)		Group-B : Practical (50 Marks)	
Unit-1 (18M)	<b>Non-Equilibrium Statistical Mechanics and Reaction Dynamics</b>	Unit-1 (30M)	Project Dissertation
Unit-2 (16M)	<b>Advanced Molecular Spectroscopy-II</b>	Unit-2 (20M)	Seminar
Unit-3 (16M)	<b>Biophysical Chemistry</b>		

**University of Calcutta**  
Three year Degree course  
B. A. General  
New Syllabus  
**Subject : Sanskrit General**  
w.e.f. 2010 Admission

**SANG PART I**

Paper I  
Full Marks : 100

Course I  
Marks : 50

Unit I  
Marks : 15

Chandomañjari of Gaṅgādāsa (Samavṛttas only)

Unit II  
Marks : 10

General Grammar : Declension & Conjugation

Unit III  
Marks : 25

Drama Text. Svapnavāsavdatta ascribed to Bhāsa.

- |  |    |
|--|----|
| (a) One broad Question                       | 10 |
| (b) Textual Trans. into Eng. <b>or</b> Beng. | 5  |
| (c) Explain with ref. to the context         | 6  |
| (d) Short/objective (two) Q                  | 4  |

For model Q cf. Paper I, SANG, Unit I, II, Unit III, Group A,  
of (1+1+1) 2009, 2010,

Course II  
Marks : 50

Unit I  
Marks : 10

शुकनासोपदेश (as in C. U. publication) from Bāṇabhaṭṭa's prose Kāvya कादम्बरी

Unit II  
General Grammar  
Marks : 20

Sandhi, Kāraka-vibhakti (Pāṇini-System)

Unit III

Marks : 20

- (a) Translation of unseen passage in English **or** Bengali into Sanskrit 10  
(b) Comprehension Test in Sanskrit (**Write in Devanagari script only**)10

For Model Q. Cf. SANG Paper I/Unit III-Gr. B, Unit IV and  
Unit V, of 2009, 2010 (1+1+1) SANG

**SANG PART II**

Paper II

Sames as paper II of (1+1+1) System SANG

Full Marks : 100

Unit 1

Marks : 40

Drama Text :

Abhijñānaśakuntala of Kālidāsa

- (a) One broad Q 12  
(b) Four objective/short Q 8 (2×4)  
(c) Textual trans. into Eng. **or** Beng. 6  
(d) Explain with ref. to the context from text 8  
(e) Amplification from text 6  
or, short notes (two) 6 (3×2)

For Model Q—cf. Paper—II SANG (1+1+1), 2009, 2010

Unit II

Marks : 30

Kāvya text : Raghuvamśa of Kālidāsa.

- (a) One broad Question 10  
(b) Three objective/short Question 6  
(c) Textual translation into Eng. **or** Beng. 6  
(d) Explain with ref. to the context (from text) 8

Unit III

General Grammar

Marks : 20

Samāsa, Kṛt, Taddhita (Pāṇini-System)

Unit IV

Marks : 10

Translation of unseen Sans. passage into English **or** Bengali

For Model Question cf. SANG Paper II of 2009, 2010, (1+1+1) System.

Paper III  
Full Marks : 100

Same as SANG Paper III (1+1+1) System  
For Model Question Cf. Paper III SANG (1+1+1) 2009, 2010

Unit I

Marks : 40

History of Classical Sans. Literature

- |                               |           |
|-------------------------------|-----------|
| (a) Two broad Questions       | 30 (2×15) |
| (b) Two short notes/Questions | 10 (2×5)  |

Unit II

Marks : 20

Īśopaniṣad

- |  |    |
|--|----|
| (a) One broad Question                       | 10 |
| (b) Textual trans. into Eng. <b>or</b> Beng. | 5  |
| (c) Explanation                              | 5  |

Unit III

Marks : 20

Rāmāyaṇa of Vālmiki ; Bālakāṇḍa, Sarga 1 & 2

- |  |         |
|--|---------|
| (a) One broad Question                       | 10      |
| (b) Textual trans. into Eng. <b>or</b> Beng. | 4       |
| (c) Explanation with ref. to the context     | 6       |
| <b>or</b> , three short Questions            | 6 (2×3) |

Unit IV

Marks : 20

Manusāṃhitā, Chapter—VII, Verses 1—100 only

- |  |         |
|--|---------|
| (a) One broad Question                       | 10      |
| (b) Textual trans. into Eng. <b>or</b> Beng. | 4       |
| (c) Explanation                              | 6 (3×2) |
| <b>or</b>                                    |         |
| Short notes (three)                          | 6       |
| <b>or</b>                                    |         |
| Three short Questions                        | 6       |

### SANG PART III

Paper IV  
Marks : 100

Course I ; Marks : 50

Unit I

Poetological Text

Marks : 25

Sāhityadarpaṇa of Viśvanātha-kavirāja

Chapter—X ; the of the following Alaṃkāras only—अनुप्रास, यमक, श्लेष, उपमा, रूपक, प्रतिवस्तूपमा, उत्प्रेक्षा, अतिशयोक्ति, तुल्ययोगिता, दीपक, दृष्टान्त, अर्थान्तरन्यास, अप्रस्तुतप्रशंसा, समासोक्ति, निदर्शना।

- (a) Define & illustrate (three alaṃkāras )  $3 \times 5 = 15$   
(b) Determine the alaṃkāras in the given examples (two)  $2 \times 5 = 10$

Unit II

Marks : 25

General Acquaintance with the History of Sanskrit works on Scientific & Technical Literature. The following broad areas only—Grammar & Lexicon, Dramaturgy, Music, Prosody, Āyurveda, Algebra, Geometry, Astronomy.

- (a) One broad Question 15  
(b) Two short notes  $(2 \times 5) = 10$

For model Question cf. SANG Paper—IV,  
Unit—I & III, (1+1+1) 2009, 2010

Paper IV

Course II ; Marks : 50

Unit I

Marks : 40

Sanskrit Mahābhārata Text.

Haridāsa Siddhāntavāgīśa ed. Udyogaparvan, chapter 33, Verses 8—130.

- (a) One broad Question 10  
(b) Six short Questions  $(6 \times 3) = 18$   
(c) One textual Explanation 7  
(d) One textual translation into Eng. or Beng. 5

Unit II

Marks : 10

Composition in Sanskrit

For Model Question cf. SANG Paper—IV, Unit—II & IV of (1+1+1), 2009, 2010

Unit II

Marks : 25

Arthśāstra of Kauṭilya

Arthśāstra : Section 1

Chapters—2, 3, 4, 6, 7, 8, 13, 14, 15, 16, 21

- |  |    |
|--|----|
| a) One broad Question                        | 12 |
| b) Textual trans. into Eng. <b>or</b> Beng.  | 7  |
| c) Explanatory notes in short (two or three) | 6  |
- Moderl Q. Paper VI, Unit II, 2009, 2010 ; (1+1+1) New

Paper VI

Full Marks : 100

Course I

Vedic Texts ; Yajurveda, Atharvaveda & Brāhmaṇa, Upaniṣad

Full Marks : 50

Unit I

Marks : 10

- |  |    |
|--|----|
| a) Rudrādhyāya (Śukla-Yajurveda, 16.1–14)      |    |
| b) Atharvaveda (12.1.1–10)                     |    |
| a) One broad Question                          | 10 |
| Or b) Textual trans. into Eng. <b>or</b> Beng. | 10 |

Unit II

Marks : 10

- |   |    |
|---|----|
| a) मनुमत्स्यकथा (शतपथब्राह्मण)                    |    |
| b) शुनःशेषोपाख्यान (ऐतरेयब्राह्मण, 3.3.3)         |    |
| a) One broad Question                             |    |
| <b>Or,</b>  |    |
| b) Textual trans. into English <b>or</b> Bengali. | 10 |

Unit III

Marks : 30

बृहदारण्यकोपनिषद् IV. 4+5.

- |  |        |
|--|--------|
| a) One broad Question                                      | 10     |
| b) Textual trans. into Eng. <b>or</b> Beng. (two passages) | 2×6=12 |
| c) Textual explanation in Sans.                            | 8      |

Model Question for this paper : Cf. Paper V,  
Unit II, III, IV ; 2009 & 2010, (1+1+1) New.

Paper VIII  
Full Marks : 100

Course I  
Full Marks : 50

Unit I

सिद्धान्तकौमुदी of भट्टोजिदीक्षित—समासप्रकरणम् ; excluding समासान्तविधानम्

Marks : 30

- a) One broad Q 10  
b) Explaining two sūtras (2×5) = 10  
c) Short notes 4  
d) Expound and Name the samāsa with Pāṇini-sūtra (three)(3×2) = 6

**Questions of this paper will be set in Sanskrit only.**

Answers may be written in Sanskrit or English or Bengali.

Model Question Unit I of Paper VII ; (1+1+1) New ; 2009 & 2010 ; Q. No. 1, 2, 4,  
(excluding Q. on Kāraka section) and Q. 5.

Unit II

Marks : 20

Elementary knowledge about “Science of Language”, the IE family of language and  
the phonetic laws, history of the concept of IE language, Divisions of IE.

Two broad Q. 2×10=20

Model Q. Q. no. 7 of paper VII, (1+1+1) New ; 2009, 2010.

Among phonetic laws the following are important. Grimm’s Law, Verner’s Law,  
Grassmann’s Law, Bartholomae’s Law, Collitz’s Law, Fortunatov’s law.

Paper VIII

Course II

Indian philosophical Text

Full Marks : 50

Text : Annambhaṭṭas Tarkasaṃgraha.

**Questions of this paper will be set in Sanskrit only.**

Answers may be written in Sanskrit or English or Bengali.

- a) Two broad Q. (2×13) = 26  
b) Two sets of short Q. (2×2×6)= 24

Model Q. Unit I, (Q. 1,2) of paper VIII (1+1+1) New ; 2009 & 2010

**Exam System : Paper I Course I Two Hrs.**

**Break of One hour**

**Paper I Course II Two Hrs**

**Same for Papers II, III, IV, V, VI, VII, VIII**

***UNIVERSITY OF CALCUTTA***

***SYLLABI***

***FOR***

***THREE-YEAR B.A. HONOURS & GENERAL  
COURSES OF STUDIES***



***ENGLISH  
2010***



SYLLABI FOR THREE-YEAR B.A( HONOURS & GENERAL) COURSES OF STUDIES IN  
ENGLISH,2010

**HONOURS**

*Word-limit for the answers for the honours papers*

Full marks of the questions →	16	7	12	8	14	4	9	5	18	10	15	35	20
Word-limit of the answers →	600	250	450	300	500	150	350	200	700	400	550	1000	800

*Note: No word limit prescribed for the word-notes*

**PART I**

**PAPER – I (F.M.. 100)**

**HISTORY OF LITERATURE: 60 MARKS**

Group A: OE period to 1750

Section 1: Old English and Middle English Periods

Section 2: Elizabethan and Jacobean Periods

Section 3: Civil War, Restoration and Augustan Periods

One question of 16 marks out of three (one from each section)

Two questions of 7 marks each out of six (two from each section)

$$16 \times 1 = 16$$

$$7 \times 2 = 14$$

Total 30

*Three questions will have to be answered (one question of 16 marks and two questions of 7 marks each) taking **only one** from each section. Examinees are not allowed to answer twice from the same section.*

Group B: 1750 to 2000

Section 1: Pre-Romantics and Romantics

Section 2: Victorian

Section 3: Modern and Post-Modern

One question of 16 marks out of three (one from each section)

Two questions of 7 marks each out of six (two from each section)

$$16 \times 1 = 16$$

$$7 \times 2 = 14$$

Total 30

*Three questions will have to be answered (one question of 16 marks and two questions of 7 marks each) taking **only one** from each section. Examinees are not allowed to answer twice from the same section.*

**Recommended Reading:**

Andrew Sanders: *The Short Oxford History of English Literature*

G.M. Trevelyan: *English Social History*

Michael Alexander: *A History of English Literature*

Edward Albert: *History of English Literature*  
Bibhash Choudhury: *English Social and Cultural History*

PHILOLOGY: 40 MARKS

Group A: Latin, Greek, Scandinavian & French Influence  
One question of 12 marks out of two

Group B: Word Notes  
Four word-notes of 2 marks each out of eight

12x1 = 12  
2x4 = 8  
Total 20

Group C: Word-formation Processes and Americanism  
One question of 12 marks out of two

Group D: Consonant Shift, Makers of English Language (Shakespeare, Milton & the Bible)  
One question of 8 marks out of three

12x1 = 12  
8x1 = 8  
Total 20

**Recommended Reading:**

Otto Jespersen: *Growth and Structure of the English Language* (Chapters 4, 5, 6, 8, 10)  
C.L. Wren: *The English Language* (Chapters 6 & 7)

**Further Reading:**

A.C. Baugh: *A History of English Language*  
C.L. Barber: *The Story of Language*

PAPER – II (F.M. 100)

POETRY FROM ELIZABETHAN AGE TO THE ROMANTIC REVIVAL

GROUP A: John Donne: *The Good Morrow*, Andrew Marvell: *To His Coy Mistress*, William Blake: *The Tyger & The Lamb*

One question of 14 marks out of two

GROUP B: William Wordsworth: *Tintern Abbey*, ST Coleridge: *Kubla Khan*, PB Shelley: *Ode to the West Wind & To a Skylark*, John Keats: *Ode to a Nightingale & To Autumn*

Two questions of 14 marks each out of four (one each from the four poets)  
Explanation of one passage of 8 marks out of two passages (one each from Groups A and B)

14x3 = 42  
8x1 = 8  
Total 50

GROUP C: Shakespeare's sonnets No. 87 (*Farewell! thou art too dear for my possessing*) & No. 130 (*My mistress' eyes are nothing like the sun*)

One question of 14 marks out of two

GROUP D: John Milton, *Paradise Lost*, Book I  
One question of 14 marks out of two

GROUP E: Alexander Pope, *The Rape of the Lock* (First 3 Cantos)  
One question of 14 marks out of two

GROUP F: Literary Terms on poetry  
Two questions of 4 marks each out of four  
**Recommended Reading:** M.H. Abrams: *A Glossary of Literary Terms*

14x3 = 42  
4x2 = 8  
Total 50

## **PART - II**

### **PAPER – III (F.M. 100)**

#### **DRAMA**

GROUP A: Marlowe – *Edward II*, Shakespeare – *A Midsummer Night's Dream*  
One question of 16 marks out of two from each of the two plays  
Explanation of one passage of 8 marks out of two (one from each play)

GROUP B: Literary terms on drama  
Two questions of 5 marks each out of four

16x2 = 32  
8x1 = 8  
5x2 = 10  
Total 50

GROUP C: Sheridan – *The Rivals*, Shakespeare - *Macbeth*  
One question of 16 marks out of two from each of the two plays  
Explanation of one passage of 9 marks out of two from each of the two plays

16x2 = 32  
9x2 = 18  
Total 50

### **PAPER – IV (F.M. 100)**

#### **NOVEL, ESSAYS AND SHORT STORIES**

GROUP A: Jane Austen: *Pride and Prejudice* **OR** Sir Walter Scott: *Kenilworth*  
One question of 16 marks out of two (two questions will be set from each of the two novels)

GROUP B: Essays: Francis Bacon, *Of Studies*, Charles Lamb, *The Superannuated Man*, and George Orwell, *Shooting an Elephant*

**Recommended Reading:** *Eight Essayists*, ed. A.S. Cairncross & *Modern Prose* ed. Michael Thorpe  
One question of 16 marks out of two  
Explanation of one passage of 8 marks out of two

GROUP C: Literary Terms on fiction  
Two questions of 5 marks each out of four

16x2 = 32  
8x1 = 8  
5x2 = 10  
Total 50

GROUP D: Stories - James Joyce, *Araby*, HE Bates, *The Ox*, and Katherine Mansfield, *The Fly*  
Two questions of 16 marks out of three (one from each story)

**Recommended Reading:** *Modern Prose* ed. Michael Thorpe

GROUP E: Joseph Conrad, *The Secret Sharer*  
One question of 18 marks out of two

**Recommended Reading:** *The Secret Sharer and Other Stories* (Dover Thrift Edition)

16x2 = 32  
18x1 = 18  
Total 50

### **PART – III**

#### **PAPER – V (F.M. 100)**

#### **VICTORIAN POETRY, TWENTIETH CENTURY POETRY, PROSODY AND UNSEEN**

GROUP A: Lord Tennyson: *Ulysses*, Robert Browning: *My Last Duchess*, Matthew Arnold, *Dover Beach*, Hopkins: *Pied Beauty*, Elizabeth Barret Browning: *The Ways of Love*

Two questions of 16 marks each out of five (one from each poem)  
Explanation of one passage of 8 marks out of two

GROUP B: WB Yeats: *An Acre of Grass*, Dylan Thomas: *In my craft or sullen art*, TS Eliot: *The Love Song of J. Alfred Prufrock*, Wilfred Owen: *Spring Offensive* and Ted Hughes: *Hawk-roosting*

Two questions of 16 marks each out of five (one from each poem)  
Explanation of one passage of 8 marks out of two

GROUP C: Prosody (Scansion)

One question of 10 marks out of two

GROUP D: Rhetoric

One question of 10 marks out of two

16x4 = 64  
8x2 = 16  
10x1 = 10  
10x1 = 10  
Total 100

#### **PAPER – VI (F.M. 100)**

#### **NOVEL, ESSAY & WRITING**

GROUP A: Charles Dickens – *Great Expectations*

One question of 20 marks out of two

**Or**

Thomas Hardy – *The Mayor of Casterbridge*

One question of 20 marks out of two

GROUP B: Miscellaneous Writing Skills (Report Writing/Film Reviews/ Book Reviews/Dialogue)  
One question of 20 marks out of two

GROUP C: Essay  
One question of 40 marks out of five

GROUP D: Summary and critical note on an unseen passage  
One question of 20 marks out of two (one prose and one poem)  
(12 marks for summary and 8 marks for critical note)

20 x 1 = 20

20x1 = 20

40x1 = 40

20x1 = 20

Total 100

PAPER – VII (F.M.. 100)

DRAMA AND LITERARY TYPES

John Osborne: *Look Back in Anger* **OR** Arnold Wesker: *Roots*, George Bernard Shaw: *Pygmalion*,  
Synge – *Riders to the Sea*  
One question of 20 marks out of two from each of the three plays

Literary Types - Tragedy, Novel, Epic, Comedy  
Two questions of 20 marks each out of four (one from each type)

20x3 = 60

20x2 = 40

Total 100

PAPER – VIII (F.M. 100)

OPTIONAL PAPER

GROUP A: Indian Writing in English (including Indian writing in English translation)

Novel:

R.K. Narayan: *Guide*

Anita Desai: *Voices in the City*

Rabindranath Tagore: *The Home and the World*

Amitava Ghosh: *The Shadow Lines*

Two questions of 20 marks each out of four (one from each novel)

Short Story: (from *Contemporary Indian Short Stories in English & Modern Indian Literature: An Anthology*, Chief Editor: K.M. George, Volume 2, Sahitya Akademi)

Munshi Prem Chand: *The Shroud*

Ruskin Bond: *The Eyes are not Here*

Manik Bandyopadhyay: *Primeval*

Gangadhar Gadgil: *The Faceless Evening*

One question of 20 marks out of three

Poetry: (from *The Golden Treasury of Indo-Anglian Poetry & Modern Indian Literature: An Anthology*, Chief Editor: K.M. George, Volume 1, Sahitya Akademi)

Toru Dutt: *Our Casuarina Tree*

Nissim Ezekiel: *Enterprise*  
Kamala Das: *An Introduction*  
Mahadevi Verma: *This is the Lamp of the Temple*  
Agyeya: *Hiroshima*  
One question of 20 marks out of three

Drama:  
Mahesh Dattani: *Bravely Fought the Queen*  
(One question of 20 marks out of two)

Or

Vijay Tendulkar: *Silence! The Court is in Session*  
(One question of 20 marks out of two)

20x5 = 100

GROUP B: American Literature

Novel:  
Mark Twain: *Huckleberry Finn*  
Ernest Hemingway: *The Old Man and the Sea*  
F. Scott Fitzgerald: *The Great Gatsby*  
Alice Walker: *Color Purple*  
Two questions of 20 marks each out of four (one from each novel)

Short Story:  
Edgar Allan Poe: *The Fall of the House of the Usher*  
O' Henry: *The Last Leaf*  
John Steinbeck: *The Chrysanthemums*  
Kate Chopin: *The Story of an Hour*  
One question of 20 marks out of three

Poetry:  
Robert Frost: *After Apple Picking*  
Langston Hughes: *Harlem to be Answered*  
Sylvia Plath: *Daddy*  
Muriel Rukeyser: *The Poem as Mask*  
Walt Whitman: *Good-bye My Fancy!*  
One question of 20 marks out of three

Drama:  
Tennessee Williams: *The Glass Menagerie*  
(One question of 20 marks out of two)

Or

Arthur Miller: *A View from the Bridge*  
(One question of 20 marks out of two)

20x5 = 100

GROUP C: Post-Colonial Literature in English

Novel:  
Margaret Atwood: *Surfacing*  
Chinua Achebe: *Things Fall Apart*  
Bapsi Sidhwa: *Ice-Candy Man*  
Salman Rushdie: *Midnight's Children*

Two questions of 20 marks each out of four (one from each novel)

Short Story: (from *The Arnold Anthology of Post-Colonial Literatures in English*, ed. John Thieme)

Henry Lawson: *The Drover's Wife*

Alice Munroe: *The Photographer*

Nadine Gordimer: *Six Feet of the Country*

V.S. Naipaul: *Man-man*

One question of 20 marks out of three

Poetry: (from *An Anthology of Commonwealth Poetry*, Macmillan)

Judith Wright: *Clock and Heart*

Wole Soyinka: *Telephonic Conversation*

Derek Walcott: *A Far Cry from Africa*

P.K. Page: *First Neighbours*

Kishwar Naheed: *I am Not that Woman*

One question of 20 marks out of three

Drama:

Ngugi Wa Thiong and M.G. Mugo: *The Trial of Dedan Kimathi* (Worldview)

One question of 20 marks out of two

OR

Sunil Kuruvilla: *Night Out* (Playscripts, Inc., New York)

One question of 20 marks out of two

20x5 = 100

## LIST OF LITERARY TERMS

### *Poetry*

1. Bathos
2. Blank Verse
3. Carpe Diem
4. Heroic Couplet
5. Epic
6. Imagery
7. Mock Epic
8. Ode (Horatian & Pindaric)
9. Pastoral Elegy
10. Refrain
11. Rhyme
12. Satire
13. Symbol
14. Caesura
15. Conceit.

### *Fiction*

1. Bildungsroman
2. Character (Flat & Round)

3. Folktale
4. Gothic Novel
5. Irony
6. Epistolary Novel
7. Parable
8. Picaresque Novel
9. Plot
10. Point Of View
11. Stream-Of-Consciousness
12. Short Story
13. Theme
14. Foil
15. Setting

*Drama*

1. Anagnorisis
2. Aside
3. Antagonist
4. Catastrophe
5. Catharsis
6. Chorus
7. Conflict
8. Climax
9. Comic Relief
10. Denouement
11. Dramatic Irony
12. Hamartia
13. Hubris
14. Soliloquy
15. Three Unities

GENERAL ENGLISH

**PART - I**  
**PAPER – I** (F.M. 100)

POETRY

From Palgrave's Golden Treasury  
 William Shakespeare: Sonnet No. 87 (Farewell, thou art too dear for my possessing)  
 John Milton: *On His Blindness*  
 William Wordsworth: *Strange fits of passion*  
 P.B. Shelley: *To a Skylark*  
 John Keats: *To Autumn*

2 questions of 15 marks out of 5  
 5 questions of 2 marks each out of 10

UNSEEN

Identifying Figures of Speech: 10 marks  
 (Simile, Metaphor, Metonymy, Synecdoche, Personification, Apostrophe, Alliteration, Transferred Epithet, Oxymoron, Epigram, Antithesis & Irony)

15 x 2 = 30  
 2 x 5 = 10  
10 x 1 = 10  
Total = 50



POETRY

From Palgrave's Golden Treasury  
Lord Tennyson: *Ulysses*  
Robert Browning: *The Last Ride Together*  
W.B. Yeats: *Coole Park and Ballylee 1931*  
Wilfred Owen: *Futility*  
W.H. Auden: *Look Stranger*

2 questions of 15 marks out of 5  
5 questions of 2 marks each out of 10

UNSEEN

Punctuation: 10 marks

15 x 2 = 30  
2 x 5 = 10  
10 x 1 = 10  
Total = 50

**PART - II**  
**PAPER – II** (F.M. 100)

FICTION

Novel  
Charles Dickens: *David Copperfield*  
One question of 15 marks out of two  
Or  
Thomas Hardy: *The Mayor of Casterbridge*  
One question of 15 marks out of two

Short Stories  
From *Modern Prose*, ed. Michael Thorpe  
James Joyce: *Araby*  
H.E. Bates: *The Ox*  
Katherine Mansfield: *The Fly*  
One question of 15 marks out of three (one from each story)  
One passage for explanation out of two of 8 marks

Unseen  
Writing précis of a passage and adding a title (10 + 2 = 12)

15 x 1 = 15  
15 x 1 = 15  
8 x 1 = 8  
12 x 1 = 12  
Total = 50

ESSAY

Essays  
From *Eight Essayists* ed. A.S. Cairncross & *Modern Prose* ed. Michael Thorpe

Charles Lamb: *The Superannuated Man*  
A.C. Benson: *The Art of the Essayist*  
Robert Lynd: *Sea-side*  
George Orwell: *Shooting an Elephant*  
Two questions of 15 marks each out of four (one from each essay)

Unseen  
One essay of 20 marks

15 x 2 = 30  
20 x 1 = 20  
Total = 50

PAPER – III (F.M. 100)

DRAMA

William Shakespeare: *Julius Caesar* OR *A Midsummer Night's Dream*  
One question of 20 marks out of two  
One explanation of 10 marks out of two  
Four short questions of 2 marks out of six  
Three Literary Terms (related to drama) of 4 marks out of five

20 x 1 = 20  
10 x 1 = 10  
2 x 4 = 8  
4 x 3 = 12  
Total = 50

DRAMA

George Bernard Shaw: *Arms and the Man* OR *Pygmalion*  
One question of 20 marks out of two  
One explanation of 10 marks out of two  
Four short questions of 2 marks out of six

Proof Reading: 12 marks (The original text should be printed in the question paper along with the proof copy)

20 x 1 = 20  
10 x 1 = 10  
2 x 4 = 8  
12 x 1 = 12  
Total = 50

**PART - III**

PAPER – IV (F.M.100)

Short Stories  
Bhabani Bhattacharya: *A Moment of Eternity*  
Mulk Raj Anand: *Duty*  
R.K. Narayan: *Dasi the Bridegroom*  
Rabindranath Tagore: *The Home-coming*

Two questions of 20 marks out of four (one from each story)  
One explanation of 10 marks out of two

20 x 2 = 40  
10 x 1 = 10  
Total = 50

Poems

Toru Dutt: *Sita*

Kamala Das: *An Introduction*

A.K. Ramanujam: *A River*

Nissim Ezekiel: *Goodbye Party for Miss Puspa T.S.*

One question of 20 marks out of three

One explanation of 10 marks out of two

Unseen

Dialogue Writing – 10 marks

Substance writing of a poem – 10 marks

20 x 1 = 20  
10 x 1 = 10  
10 x 1 = 10  
10 x 1 = 10  
Total = 50

# UNIVERSITY OF CALCUTTA



Dr. MILAN KUMAR PAL, M.Sc., Ph.D.  
O.S.D.  
UNIVERSITY OF CALCUTTA.

Ref No. CUS/22/17  
Dated the 30<sup>th</sup> January, 2017

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To  
The Principals/T.I.C.  
of all the Undergraduate Colleges  
offering B.A. (Honours) in Political Science  
affiliated to the University of Calcutta

Sir/ Madam,

The undersigned would like to forward you the Draft Syllabus for **Political Science (Honours)**, to be implemented from the academic session 2017-2018 to get feedback from the Department of Political Science in your college.

You are requested to send your feedback within 15<sup>th</sup> February, 2017.

In this regard you may send your observations/ suggestions to the Department of U.G. Councils, C.U. or through email ([u.g.councilsc.u@gmail.com](mailto:u.g.councilsc.u@gmail.com)) or you may contact **Prof. Dipankar Sinha**, Chairperson, U.G.B.O.S., Political Science, C.U. ( email: [cuugbospolsc@rediffmail.com](mailto:cuugbospolsc@rediffmail.com) )

Your cooperation in this regard will be highly appreciated. Kindly treat the matter as urgent.

Thanking you,

Yours faithfully,

(Milan Kr. Pal)  
O.S.D., C.U.

**Note:** The draft honours syllabus has been prepared by the UG Board of Studies in Political Science strictly on the basis of the format given below. The colleagues from the colleges are hereby requested to provide their valuable inputs, *collectively on behalf of the department*, on the basis of the same format. The justification for the suggestions made may also be provided in brief to ensure greater clarity and transparency in the twin processes of updating and upgrading the syllabus.

The proposed format:

**Please specify Paper and Module Number:**

- ◆ New topics for inclusion:
  - ◆ Existing topics for exclusion:
  - ◆ Rephrasing/Reframing of existing topics:
  - ◆ Topics for shifting:
  - ◆ (Recent) Books to be added and (existing books) to be deleted:
- .....

## **UNIVERSITY OF CALCUTTA**

### **DRAFT SYLLABUS FOR THREE-YEAR B.A. HONOURS DEGREE COURSE OF STUDIES IN POLITICAL SCIENCE (2017)**

**Part I Full marks: 200**

**Paper I: POLITICS: CONCEPTS AND APPROCHES**

**100 Marks (25 x 4 Modules)**

**Module I:**

- 1.1.1. Conceptualising politics.
- 1.1.2. Key concepts I: State; Sovereignty (evolution); Power and Authority--- types and linkages;
- 1.1.3. Key concepts II: Law. Liberty, Equality--- interrelationships.

**Module II:**

- 1.2.1. Key concepts III: Rights; Justice; Freedom.
- 1.2.2. Key concepts IV: Democracy and Authoritarianism.
- 1.2.3. Key concepts V: Citizenship.

**Module III:**

- 1.3.1. Approaches I: Normative; Legal-Institutional; Empirical---Systems Analysis; Structural Functionalism.
- 1.3.2. Approaches II: Liberalism; Social Welfarism; Neo-Liberalism.
- 1.3.3. Approaches III: Postcolonial; Feminist.

#### **Module IV:**

- 1.4.1. Marxian approach--- Dialectical Materialism and Historical Materialism.
- 1.4.2. Key concepts: State (focus on Relative Autonomy); Class and Class Struggle; Surplus Value; Alienation.
- 1.4.3. Party--- Democratic Centralism; Lenin-Rosa Luxemburg debate; Revolution--- Lenin and Mao.

### **Paper II: CONSTITUTION AND POLITICS IN INDIA**

**100 Marks (25 x 4 Modules)**

#### **Module I:**

- 2.1.1. Evolution of the Indian Constitution. Role of the Constituent Assembly--- debates (overview). The Preamble.
- 2.1.2. Fundamental Rights and Duties. Directive Principles.
- 2.1.3. Nature of Indian Federalism: Union-State Relations.
- 2.1.4. Union Executive: President, Vice-President: election, position, functions (focus on Emergency Powers), Prime Minister, Council of Ministers, relationship of Prime Minister and President.

#### **Module II:**

- 2.2.1. Union Legislature: Rajya Sabha, Lok Sabha: Organisation, Functions – Lawmaking procedure, Privileges, Committee system – Speaker.
- 2.2.2. Government in states: Governor, Chief Minister and Council of Ministers: position and functions – State Legislature: composition and functions.
- 2.2.3. Judiciary: Supreme Court and the High Courts: composition and functions – Judicial activism.
- 2.2.4. Constitutional amendment: Procedure. Major recommendations of National Commission to Review the Working of the Constitution.

#### **Module III:**

- 2.3.1. Party system: features and trends – major national political parties in India: ideologies and programmes. Coalition politics in India: nature and trends. Political parties in West Bengal: Overview.
- 2.3.2. Electoral process: Election Commission: composition, functions, role. Electoral reforms.
- 2.3.3. Role of business groups, working class, peasants in Indian politics.

#### **Module IV:**

- 2.4.1. Role of (a) religion (b) language (c) caste (d) tribe and (e) regionalism in Indian politics.
- 2.4.2. Regionalism in Indian politics.
- 2.4.3. New Social Movements since the 1970s: (a) environmental movements (b) women's movements (c) human rights movements (d) peace movements.

## **Paper III: INDIAN POLITICAL THOUGHT AND MOVEMENT**

**100 Marks (25 x 4 Modules)**

### **Module I:**

- 3.1.1. Ancient Indian ideas: overview. Kautilya: Saptanga theory, Dandaniti, Diplomacy.
- 3.1.2. Medieval political thought in India: overview. Legitimacy of kingship.
- 3.1.3. Modern Indian thought: Rammohan Roy as pioneer of Indian liberalism – his views on rule of law, freedom of thought and social justice.
- 3.1.4. Bankim Chandra, Vivekananda and Rabindranath: views on nationalism.

### **Module II:**

- 3.2.1. Gandhi: views on state, Swaraj, Satyagraha.
- 3.2.2. M.N. Roy: Radical Humanism.
- 3.2.3. Narendra Deva: Democratic Socialism.
- 3.2.4. Syed Ahmed Khan: views on colonial rule and modernization.

### **Module III:**

- 3.3.1. Foundation of Indian National Congress.
- 3.3.2. Bengal Partition and Swadeshi movement.
- 3.3.3. Khilafat and Non-Cooperation Movement – Civil Disobedience movement. August 1942 movement – INA – Naval uprising.
- 3.3.4. Alternatives to Congress politics: (a) Subhas Chandra Bose and Forward Bloc (b) Congress Socialist Party (c) Communists.

### **Module IV:**

- 3.4.1. Movements against caste system and untouchability – Ambedkar's views on social justice and depressed class. Contributions of Jyotiba Phule, Pandita Ramabai.
- 3.4.2. Class and the nationalist movement under colonial rule: working class movement and peasant movement.
- 3.4.3. Contested notions of 'nation'--- Savarkar, Jinnah.

## **Paper IV: COMPARATIVE GOVERNMENT AND POLITICS**

**100 Marks (25 x 4 Modules)**

### **Module I:**

- 4.1.1. Distinction between Comparative Government and Comparative Politics. Evolution of Comparative Politics.
- 4.1.2. Scope, purposes and methods of comparison. Major approaches to the study of comparative politics--- Institutional approach---- limitations; New Institutionalism, Political Economy--- key features.
- 4.1.3. Concept of Third World. State formation in Western Europe and Third World.

## **Module II:**

4.2.1. Nature of Liberal and socialist political systems – distinguishing features: conventions, rule of law, parliamentary sovereignty (UK), separation of powers, checks and balances, judicial review (USA), ideology, democratic centralism (PRC), referendum, initiative (Switzerland).

4.2.2. Political Parties: features and role of party system/parties in UK, USA, PRC and Bangladesh. Interest groups: roles and performance in UK and USA.

## **Module III:**

4.3.1. Unitary system: UK, Bangladesh. Federal system: USA, Russia.

4.3.2. Legislature in UK and PRC: composition and functions of legislative chambers – NPC in PRC – role of second chambers in UK and USA – Committee system in UK and USA – role of speakers in parliamentary system (UK) and presidential system (USA).

## **Module IV:**

4.4.1. Executive in UK, USA, France and Russia: A comparative study of (i) Russian, French and American Presidency; (ii) British and French cabinet systems.

4.4.2. Judiciary in UK, USA and PRC (with focus on the procuratorate): A comparative study.

4.4.3. Rights of the citizens of UK, USA and PRC: A comparative study – Duties of the citizens of PRC.

## **Paper V: INTERNATIONAL RELATIONS AND GLOBAL POLITICS**

**100 Marks (25 x 4 Modules)**

### **Module I:**

5.1.1. International Relations: outline of its evolution as academic discipline--- from bi-polar politics to global politics.

5.1.2. Major representative theories: (a) Realism and Neo-Realism (b) Dependency (c) World Systems theory.

5.1.3. Emergent issues: (a) Development (b) Environment (c) Terrorism (d) Migration (e) Security.

### **Module II:**

5.2.1. Making of foreign policy.

5.2.2. Indian foreign policy: 1950s to late 1980s.

5.2.3. Sino-Indian relations; Indo-US relations;

### **Module III:**

5.3.1. Cold War and its evolution: outline. Emergence of Third World: NAM; Pan Africanism. Post-Cold War world: overview.

5.3.2. Europe in transition: European Union, Brexit (overview).

5.3.3. Major institutions of global governance: IMF, World Bank, WTO--- overview. Major regional organizations: ASEAN, OPEC, SAFTA, SAARC and BRICS. West Asia and the Palestine question.



**Module IV:**

5.4.1. Indian and her neighbours I: Pakistan; Bangladesh.

5.4.2. India and her neighbours II: Nepal; Sri Lanka.

5.4.3. UNO: background; Major organs--- General Assembly, Security Council and Secretariat (with focus on Secretary General). Role of UNO in peace-keeping, human rights, and development (Millennium Development Goals and Sustainable Development Goals).

**Paper VI: POLITICAL SOCIOLOGY****100 Marks (25 x 4 Modules)****Module I:**

6.1.1. Social bases of politics. Emergence of Political Sociology--- from Sociology of Politics to Political Sociology.

6.1.2. Political culture and Political socialization: nature, types and agencies.

6.1.3. Political participation: concept and types.

**Module II:**

6.2.1. Social stratification and politics: caste, class, elite.

6.2.2. Gender and politics: basic issues.

6.2.3. Religion, Society and Politics: different perspectives.

**Module III:**

6.3.1. Classification and types of political systems.

6.3.2. Organizations in politics: parties--- typology; functions. Pressure groups. NGOs--- emergence and role.

6.3.3. Military and politics: conditions and modes of intervention.

**Module IV:**

6.4.1. Political communication: concept; structures. Media and politics (with focus on democracy).

6.4.2. Electorate and electoral behaviour (Indian context). Electoral reforms.

6.4.3. Political development and social change – role of tradition and modernity.

**Paper VII: WESTERN POLITICAL THEORY AND THOUGHT****100 Marks (25 x 4 Modules)****Module I:**

7.1.1. Greek political thought: main features – Plato: justice, communism – Aristotle: state, classifications of constitutions.

7.1.2. Roman political thought: theories of Law and Citizenship – contributions of Roman thought.

7.1.3. Medieval political thought in Europe: major features.

7.1.4. Significance of Renaissance. Political thought of Reformation. Contribution of Machiavelli.

## **Module II:**

- 7.2.1. Theory of Sovereignty: Bodin, Austin. Pluralist critique.
- 7.2.2. Hobbes: founder of science of materialist politics.
- 7.2.3. Locke: founder of Liberalism. views on natural rights, property and consent.
- 7.2.4. Rousseau: views on freedom and democracy.

## **Module III:**

- 7.3.1. Bentham: Utilitarianism. John Stuart Mill: views on liberty and representative government.
- 7.3.2. Hegel: Civil Society and State.
- 7.3.3. Rawls on justice.
- 7.3.4. David Held: classification of democracy--- Protective (Bentham), Developmental (J.S. Mill), Participatory.
- Huntington: three waves of democratization.

## **Module IV:**

- 7.4.1. Utopian and Scientific Socialism: basic characteristics.
- 7.4.2. Varieties of non-Marxist socialism: Fabianism, Syndicalism, Guild Socialism, German Revisionism.
- 7.4.3. Anarchism: overview.
- 7.4.4. Post-Marxism: overview.

## **Paper VIII: PUBLIC ADMINISTRATION**

**100 Marks (25 x 4 Modules)**

### **Module I:**

- 8.1.1. Nature, Scope and Evolution of Public Administration – Private and Public Administration. Principles of Socialist Management.
- 8.1.2. Challenges to discipline of Public Administration and responses: New Public Administration, Comparative Public Administration, Development Administration (with focus on Indian context).
- 8.1.3. Major concepts of administration: (a) Hierarchy (b) Unity of Command (c) Span of Control (d) Authority (e) Centralization, Decentralization and Delegation (f) Line and Staff.
- 8.1.4. Public Administration in the era of globalization, liberalization and Privatization. Governance: conceptual emergence--- distinction with government.

### **Module II:**

- 8.2.1. Bureaucracy: views of Marx and Weber.
- 8.2.2. Ecological approach to Public Administration: Riggsian Model.
- 8.2.3. Administrative Processes: (a) Decision making (b) Communication and Control (c) Leadership (d) Coordination.
- 8.2.4. Policy-making: models of policy making – policies and implementation.

### **Module III:**

- 8.3.1. Continuity and change in Indian administration: brief historical overview.
- 8.3.2. Civil Service in India (Bureaucracy): recruitment (role of UPSC, SPSC), training.
- 8.3.3. Organization of Union Government: Secretariat Administration: PMO, Cabinet Secretariat.
- 8.3.4. Organization of State Government: Chief Secretary – relations between Secretariat and Directorate.
- 8.3.5. District Administration: changing role of District Magistrate.

### **Module IV:**

- 8.4.1. Local Self Government: Corporations, Municipalities and Panchayats in West Bengal--- structure and functions. 73rd and 74th Amendment: overview.
- 8.4.2. Planning: Planning Commission, National Development Council. District Planning. Changing nature of planning: NITI Ayog.
- 8.4.3. Financial Administration: Public Accounts Committee, Estimates Committee – role of CAG.
- 8.4.4. Citizen and administration: functions of Lokpal and Lokayukt. Right to Information--- Citizen Charter.
- 8.4.5. Citizen and social welfare: MGNREGA; Sarva Shiksha Abhiyan (SSA); National Rural Health Mission (NRHM).

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- ◆ **Pattern of questions:** Students are to write (i) two short notes – each carrying 5 marks – out of four, and (ii) one broad question of 15 marks out of two from each module.
  - ◆ **Number of Lectures:** There should be 64 classes per week for 8 honours papers, that is, 8 classes a week for each paper.

# UNIVERSITY OF CALCUTTA

## SYLLABUS FOR THREE-YEAR B.A. (HONS.) COURSES OF STUDIES IN POLITICAL SCIENCE (UNDER 1+1+1 SYSTEM) NEW SYLLABUS

### POLITICAL SCIENCE PART I : F.M. 200

PAPER I:

POLITICAL THEORY

100-MARKS

#### Unit I

1. What is Politics – Approaches to the study of Politics: Normative, Behavioural and Post-behavioural. Feminist views to Politics.
2. Theories of the State (a) Origin: Social Contract Theory; (b) Nature: Idealist, Liberal and Neo-liberal theories.
3. Concept of State Sovereignty: Monistic and Pluralistic theories – Changing concepts of Sovereignty in the context of Globalization.

#### Unit II

1. Democratic Theories: David Held's Classification: Protective (Bentham), Developmental (J.S. Mill), Participatory.
2. Liberty, Equality, Rights and Law: concepts and their interrelations – Justice: concept – theory of Rawls.
3. Empirical political theories: Systems Analysis, Structural-Functionalism.

#### Unit III

1. Marxist approach to the study of Politics.
2. Dialectical Materialism and Historical Materialism with special reference to relationship between base and superstructure – Concepts of Class and Class Struggle.
3. Marxist theory of the State – the question of relative autonomy.

#### Unit IV

1. Marxist Concepts of Freedom and Democracy.
2. Marxian theory of Revolution: contributions of Lenin and Mao.
3. Marxian theory of the Party: Lenin's contribution – Lenin – Rosa Luxemburg Debate on Party.

#### : Suggested Readings :

D. Held	:	Political Theory Today
D. Held	:	Models of Democracy.
N. Daniels	:	Reading Rawls.
G.C. Field	:	Political Theory.
David Apter	:	Political Analysis.
S. P. Verma	:	Modern Political Theory.
Marx-Engles	:	The Communist Manifesto
V. I. Lenin	:	The State
H. Apthekar	:	The Nature of Democracy, Freedom and Revolution.
Modan Gandhi	:	Modern Political Theory.
N. P. Barry	:	Introduction to Modern Political Theory.
Andrew-Heywood	:	Basic Political Concepts.
G. Almond & G. B. Powell	:	Comparative Politics.
G. Ponton, P. Gill	:	Introduction to Politics
John Gry	:	Liberalism
D. Raphael	:	Problems of Political Philosophy.
F. Burlatsky	:	The Modern State and Politics.

Austin Ranney	: Governing : Brief Introduction to Political Science
G. Charlesworth	: Contemporary Political Analysis.
David Mclellan	: The thought of Karl Marx.
David Mclellan	: Marxism after Marx.
Tom Bottomore (ed.)	: A Dictionary of Marxist Thought.
G. Lichthemim	: Short History of Socialism.
D. Raizanov (ed.)	: The Communist Manifesto of Marx and Engels.
M. comforth	: Dialectical Materialism.
J. Femina	: Marxism and Democracy.
E. Fischer	: Marx in his own words.
B. R. Ben & R. S. Peters	: Social Principles and The Democratic State.
S. Ramaswamy	: Political Theory : Ideas and concepts.
G. Sartori	: Democratic Theory.
G. Sartori	: The Theory of Democracy Revisited-Vol. (Contemporary Debate) Vol - II (The Classical Issues).
R. Milliband	: Marxism and Politics.
E. Baker	: Principles of Social and Political Theory.
H. J. Laski	: A Grammar of Politics.
David Easton	: The Political System-An Enquiry into the State of Political Science.
David Easton (ed.)	: Varieties of Political Theory.
Robert Dahl	: Modern Political Analysis.
SWphen Wasby	: Political Science, The Discipline and its Dimensions.
Stalin	: Dialectical and Historical Materialism.
J. Gelb	: Feminism and Politics : A Comparative perspective.
V. I. Lenin	: Imperialism The Highest Stage of Capitalism.
M. R. Davis, G. A. Lewis	: Models of Political Systems.
R. H. Caren Hurt	: The Theory and Practice of Communism
Leszek Kolakowski	: Main Currents of Marxism (3 Vols.)
I. Berlin	: Three Essays on Liberty.
R. J. Holton	: Globalization and the Nation State.
T. Ball and R. Bellamy (eds.)	: The Cambridge History of Twentieth Century Political Thought.
Andrew Heywood	: Politics.
দীপক কুমার দাশ (সম্পাদিত)	: রাজনীতির তত্ত্বকথা (২ খণ্ড)
শোভনলাল দত্তগুপ্ত	: মার্কসীয় রাষ্ট্রচিন্তা (২০০৬ সং)
ভোলানাথ বন্দ্যোপাধ্যায়	: মরিস কর্গফোর্থ : দ্বন্দ্বমূলক বস্তুবাদ (অনুবাদ)
সুদর্শন রায়চৌধুরী	: আপথেকার : স্বাধীনতা, গণতন্ত্র ও বিপ্লব (অনুবাদ)
দিলীপ কুমার চট্টোপাধ্যায়	: আধুনিক রাষ্ট্রীয় মতবাদের ভূমিকা (C.E.M. Joad এর An Introduction to Modern Political Theory গ্রন্থের অনুবাদ)।
দেবাশিষ চক্রবর্তী	: রাষ্ট্রবিজ্ঞান : তত্ত্ব ও প্রতিষ্ঠান।
অনাদি কুমার মহাপাত্র	: আধুনিক রাষ্ট্রবিজ্ঞান

চৈতালী বসু	:	রাজনীতিশাস্ত্র ও অভিজ্ঞতাবাদী রাষ্ট্রতত্ত্ব।
কৃত্যপ্রিয় ঘোষ	:	রাষ্ট্রতত্ত্ব।
পরিমল চন্দ্র ঘোষ	:	রাষ্ট্রবিজ্ঞান : তত্ত্ব ও পদ্ধতি।
কাশীনাথ কয়লা ও তপন কুমার বন্দ্যোপাধ্যায়	:	প্রসঙ্গ রাজনৈতিক তত্ত্ব।

PAPER II: COMPARATIVE POLITICS & GOVERNMENT 100 Marks

### Unit I

1. Distinction between Comparative Politics and Comparative Government – Development of Comparative Politics.
2. Scope, purposes and methods of comparison – Approaches to the study of Comparative Politics.
3. Federal systems: federalism in USA and Russia

### Unit II

1. Nature of liberal and socialist political systems – their distinguishing features, with special reference to conventions, rule of law, parliamentary sovereignty (UK), separation of powers, checks and balances, judicial review (USA), ideology, democratic centralism (PRC), referendum, initiative (Switzerland).
2. Political Parties: features and role of party system/parties in UK, USA and PRC. Interest groups: their roles and performance in UK and USA

### Unit III

1. Legislature in UK and PRC: composition and functions of the legislative chambers – the NPC in PRC – role of second chambers in UK and USA – Committee system in UK and USA – role of speakers in parliamentary and presidential systems (UK and USA).
2. Executive in UK, USA, France and Russia: A comparative study of (i) Russian, French and American Presidency; (ii) British and French cabinet systems.

### Unit IV

1. Relation between executive and legislature in UK, USA and PRC: A comparative study.
2. Judiciary in UK, USA and PRC (with special reference to the procuratorate): A comparative study.
3. Rights of the citizens of UK, USA and PRC: A comparative study – Duties of the citizens of PRC.

#### : Suggested Readings :

G. Roberts	:	An Introduction to Comparative Politics.
G. Almond et. al.	:	Comparative Politics Today. A world view.
J. Harvey & S. Bather	:	The British Constitution.
A. King	:	The New American Political System.
J. T. Dreyer	:	China's Political System.
Rakhahari Chatterjee	:	Comparative Politics.
S. N. Roy	:	Comparative Politics.
The Constitution of People's Republic of China (1982)		
J. Wilson	:	American Government.
S. E. Finer	:	Comparative Government.
J. Blondel	:	An Introduction to Comparative Government.
H. Giner	:	Theory and Practics of Modern Government.

H. Eckstein and D. E. Apter (eds.)	:	Comparative Politics : A Reader.
A. H. Birch	:	British System of Government.
J. Harvey, K. Hood	:	The British State.
B. Coyal, R. Lynton (eds.)	:	Contemporary British Politics.
S. K. Dailey (ed.)	:	American Politics and Government.
G. Novack	:	Lessons on American History.
K. Kavangh	:	British Politics : Continuity and Change.
A. Lijphart (ed.)	:	Parliamentary versus presidential Government.
D. Lowel	:	China under Reform.
Tang Tsou	:	Cultural Revolution and Post Mao Reforms.
Documents of Party Congress of the CPC (since 12th Congress)	:	
H. Harding	:	China's Second Revolution : Reform after Mao.
J. Gittings	:	China Changes Face : The Road from Revolution 1949 - 89
H. Keman (ed.)	:	Comparative Politics : New Directions in Theory and Method.
C. Mackerras and A. Yorke	:	The Cambridge Handbook of Contemporary China.
D. Olson	:	Legislative Institutions : A Comparative View.
W. Zhang	:	Transforming China : Economic Reforms and its Political Implications.
R. Sarkarwa	:	Russian Politics and Society.
Rod Hauge and Martin Horrop	:	Comparative Government and Political. An Interpretation of Political Culture.
Rakhahari Chatterjee	:	Introduction to comparative Political Analysis.
পঞ্চানন চট্টোপাধ্যায়	:	ফ্রান্সের পঞ্চম সাধারণতন্ত্র
স্নেহময় চাকলদার	:	চীন গণসাধারণতন্ত্রের রাজনীতি ও সংবিধান।
অমিতাভ রায় (সম্পাদিত)	:	তুলনামূলক রাজনীতি।
হিনাচল চক্রবর্তী	:	তুলনামূলক রাজনীতি ও শাসনব্যবস্থা
নির্মলকান্তি ঘোষ	:	নির্বাচিত তুলনামূলক শাসনব্যবস্থা।

**Part II : F.M. 200**

PAPER-III: GOVERNMENT AND POLITICS IN INDIA 100 Marks

**Unit I**

1. Framing of the Indian Constitution: Role of the Constituent Assembly – the Preamble.
2. Fundamental Rights and Duties – Directive Principles.
3. Nature of Indian Federalism: Union-State Relations.
4. Union Executive: President, Vice-President: election, position, functions (with reference to Emergency Powers), Prime Minister, Council of Ministers, relationship of Prime Minister and President.

**Unit II**

1. Union Legislature: Rajya Sabha, Lok Sabha: Organisation, Functions – Law-making procedure, Privileges, Committee system – Speaker.
2. Government in the states: Governor, Chief Minister and Council of

Ministers: position and functions – State Legislature: composition and functions.

3. The Judiciary: Supreme Court and the High Courts: composition and functions – Judicial activism.
4. Constitutional amendment: Procedure – main recommendations of the Constitutional Review Commission (Venkatachalliah Commission).

### Unit III

1. Party system: features and trends – major national political parties in India: ideologies and programmes – coalition politics in India: nature and trends – political parties in West Bengal: An overview.
2. Electoral process: Election Commission: composition, functions, role.
3. Role of business, working class, peasants in Indian politics.

### Unit IV

1. Role of (a) religion (b) language (c) caste (d) tribe and (e) regionalism in Indian politics.
2. New Social Movements since the 1970s: (a) environmental movements, (b) women's movements, (c) human rights movements.

#### : Suggested Readings :

- |  |   |  |
|--|---|--|
| Government of India                    | : | Constitution of India.   |
| S. L. Sikri                            | : | Indian Government and Politics   |
| M. V. Pyllee                           | : | Constitutional Government in India (latest Edition)                            |
| Palu Brass                             | : | The Politics of India Since Independence (New Cambridge History of India).     |
| S. C. Kashyap. (ed.)                   | : | State and Politics in India.   |
| Sudipta Kaviraj (ed.)                  | : | Politics in India.   |
| Sobhanlal Datta Gupta (ed.)            | : | India : Politics and Society.  |
| Rajendra Singh                         | : | Social Movements, Old and new : A Post modernist Perspective.                  |
| Michael Anderson and Sumit Guha (eds.) | : | Changing concepts of Rights and Justice in South Asia.                         |
| S. K. Chaube                           | : | The constituent Assembly : Springboard of Revolution.                          |
| Rajendra Vora and S. Palsikar (eds.)   | : | Democracy of India.  |
| D. D. Basu                             | : | An Introduction to the Constitution of India.                                  |
| R. K. Sharma                           | : | Introduction to the Constitution of India.                                     |
| S. Kaushik (ed.)                       | : | Indian Government and Politics.  |
| A. G. Noorani                          | : | Constitutional Questions in India : The President, Parliament and the States.. |
| Tapan Kr. Chattopadhyay                | : | India and the Ecology Question.  |
| U. Baxi and B. Parekh                  | : | Crisis and Change in Contemporary India.                                       |
| S. P. Aiyar and U. Mehta (eds.)        | : | Essays on Indian Federalism.   |
| G. Austin                              | : | The Indian Constitution : Cornerstone of a Nation.                             |
| G. Austin                              | : | Working a Democratic Constitution : The India Experience.                      |
| C. P. Bhambri                          | : | The Indian State : Fifty years.  |
| Mr. Singh and H. Roy (eds.)            | : | Indian Political Systems : Structure, Political Development.                   |
| Mr. Singh and R. Sexena (eds.)         | : | Ideologies and Institutions in Indian  |



P. Brass	:	Politics. Caste, Faction and Party in Indian Politics (2 Vols)
S. Cobridge and J. Harris	:	Reinventing India : Liberalization, Hindu Nationalism and Popular Democracy. State Politics in India (2 Vols)
B. L. Fadia	:	Ethnicity, Security and Separatism in India.
M. Chadda	:	Politics India : State-Society Interface.
F. R. Frankel et.al. (eds.)	:	India After Independence (1947 – 2000).
Bipan Chandra et. al.	:	Ecology and the Politics of Survival.
V. Shiva	:	Caste in Indian Politics.
Rajni Kothari (ed.)	:	
Bharati Ray and	:	From Independence of Freedom : Indian Women Since 1947.
Aparna Basu (eds.)	:	The Constitution of India.
P. M. Bakshi	:	From Raj to Swaraj
Dhierendra Nath Sen	:	Constitution Review : Venkatachaliah Commission.
Satyabrata Datta	:	Social Change and Political Discuss In India : Structures of Power. Movements of Resistance (4 Vols.)
T. V. Stathyamurthy	:	Democracy and Human rights in Developing Sicieties.
Z. F. Arat (ed.)	:	Women and Politics in the third World.
H. Asfah (ed.)	:	Basic Documents on Human Rights.
I. Brownlie	:	The Concept of Human Rights.
J. Donnely	:	Democracy in India.
N. G. Jayal (ed.)	:	
Siddhartha Guha Roy	:	
নির্মল কান্তি বোব	:	ভারতের শাসন ব্যবস্থা ও রাজনীতি।
নিমাই প্রামানিক	:	ভারতের রাজনীতি ও শাসনব্যবস্থা।
অনাদি কুমার মহাপাত্র	:	ভারতের শাসন ব্যবস্থা ও রাজনীতি।
সত্যব্রত দত্ত	:	বাংলার বিধাসভার একশো বছর।
শাহতী দাশগুপ্ত (সম্পাদিত)	:	প্রসঙ্গ মানবাধিকার।

**PAPER IV:****INTERNATIONAL RELATIONS****100 Marks****Unit I**

1. International Relations: a brief outline of its evolution as an academic discipline.
2. Some representative theories of International Relations: (a) Realism (b) Pluralism (c) World Systems theory.
3. Emergent issues in International Relations: (a) Development (b) Regionalism and Integration (c) Terrorism

**Unit II**

1. Some basic concepts in International Relations: (a) Balance of Power (b) Bi-polarity and Unipolarity (c) Neo-colonialism (d) Globalization.
2. Foreign Policy: concept and techniques: diplomacy, propaganda, military

**Unit III**

1. Cold war and its evolution: an outline – understanding the post-cold war world: an overview.
2. Europe in transition: (a) European Union (b) Ethnicity and nationalism in Eastern Europe since 1990s.
3. Problems of developing countries: NAM – contemporary relevance.

Regionalism: ASEAN, AU (African Union), OPEC, SAFTA and SAARC – West Asia and the Palestine question after the cold war.

#### Unit IV

1. Indian Foreign Policy: basic principles and evolution.
2. Foreign policies of USA and China: Evolution and basic issues after the cold war.
3. UNO: Background; Organs with special reference to Security Council, General Assembly and Secretariat – role of the UNO in peace-keeping and human rights.

#### : Suggested Reading :

- |                            |   |  |
|----------------------------|---|--|
| A. Colombis. J. Wolfe      | : | Introduction to International Relations.   |
| Hogan (ed.)                | : | The end of cold war : Its meaning and Implications.                                |
| Calvocaressi               | : | World Politics since 1945 (lates Edition).   |
| Weatherdby et. al.         | : | The other world : Issue and Politics in the Third World.                           |
| Radharaman Chakraborty     | : | Theory and Practics of Internaional Relations.                                     |
| Luard                      | : | The United Nations as a Political Institution.                                     |
| A. toms. R. F. Gorman      | : | Intemational Relations.  |
| Dougherty. R. Pfiazgraff   | : | Contending Theories of International Relations.                                    |
| Horowitz                   | : | From Yalta to Vietranam.   |
| Carl Deutsch               | : | The Analysis of International relations.   |
| J. Morgenthau              | : | Politics among Nations.  |
| Arbjatov                   | : | The War of Ideas in International Relations.                                       |
| O. Lerche, AAziz Said      | : | Concepts of International Politics.  |
| Kegley. E. Wittkopf        | : | World Politics : Trends and Transformations.                                       |
| Bennett                    | : | International Organizations.   |
| M. Goodriche               | : | The UN in Changing world.  |
| Boy Macridis (ed.)         | : | Foreign Policy in World Politics.  |
| Rhodes et. al (eds.)       | : | Development in West European Politics.   |
| Thishkov                   | : | Ethnicity, Nationalism and Confilct in and after the Soviet Union.                 |
| Ramesh Thakur.             | : | Politics and Economics of India's Foreign Policy.                                  |
| L. Aggarwal                | : | International Economic Order.  |
| Bandopadhyay               | : | The making of India's Foreign Policy.  |
| Juyai & B. Ramesh Babu     | : | The United Nations and World Peace.  |
| Politics.                  |   |  |
| anti Bajpai &              |   |  |
| C. Shukul (eds.)           | : | Interpretation World Politics.   |
| A. Baldwin (ed.)           | : | Neo-realism and Neo-liberalism.  |
| Brown                      | : | International Relations. Theory.   |
| Burchil et. al.            | : | Theories of International Relations.   |
| ohn Baylis and Steve Smith | : | The Globalization of World Politics : An Interoduction to International Relations. |
| B. Admas                   | : | World Apart : The North-South Divide and International System.                     |
| E. Vadney                  | : | The World Since 1945.  |
| Walters                    | : | Globalization.   |
| Dicken                     | : | Global Shift : The Internationalization of Economic Activity.                      |

- R. Garthoff : The Great Transition : American Soviet Relations and the End of Cold War.
- D. Oberdovfer : The Turn : From the Cold War to A new Era
- E. Hobsbawm : Age of Extremes : The Twentieth century 1914 - 1991.
- B. White et. al (eds.) : Issue in World Politics.
- T. C. Salmon : Issues in International Politics.
- Louise Fawcett & Y. Sayish (eds.) : The Third World Beyond the Cold War
- S. Hook (ed.) : Continuity and Change.
- Allen Jams : Comparative Foreign Policy. Adaptation
- M. S. Rajan : Strategies of the Great and Emerging Powers.
- I. S. Finklestien (ed.) : UN and Peackeping Operations.
- A. Roberts and B. Kingsbury (eds.) : Essays in Non-Alignment and UN.
- W. Wallance (ed.) : Politics in the UN System.
- Stephen White : United Nations in a Divided World.
- Leslie Holms : The Dynamics of European Integration.
- J. Frankel : Development in Central and East
- K. Jm Holsti : European Politics (Vols. 1 - 2).
- Alvin So : Post Communism : An Introduction.
- Barrie Axford : The Making of Foreign Policy.
- Daniel S. Papp : International Politics. A framework for
- Jeff Hayness : Analysis.
- Peter R. Bachr : Development and Social Change.
- J. Frnkel : The Global System.
- S. H. Hoffman : Contemporary International Relations
- W. E. Olson & A. J. R. Groom : Framework for Understanding.
- M. P. Soilivan : Third World Politics.
- S. P. Verma : Human Rights : Universality in Practice.
- Radharaman Chakraborty : Contemporary International Theory and the
- P. Cammack, D. Pool and W. Tordoff. : Behaviour of states.
- J. Anderson, C. Brook and A. cockrane (eds.) : Essays in Theory and Politics of
- Z. F. Art : International Relations.
- I. Brownlie (ed.) : International Relations : Then and Now.
- R. Clutterbuck : Theories of International Politics :
- R. Holton : Enduring Paradigmin a Changing World
- A. M. Hoogvelt : International System and the Third World
- S. P. Huntington : United Nation.
- W. Lacquer : Third World Politics : A Comparative
- No. O. Sullivan (ed.) : Introduction.
- I. Brownlie (ed.) : A Global World? Re-ordering Political
- R. Clutterbuck : Space.
- R. Holton : Democracy and Human Rights in the
- A. M. Hoogvelt : Developing Countries.
- S. P. Huntington : Basic Documents on Human Rights.
- W. Lacquer : Terrorism and Cuerrilla Warfare.
- No. O. Sullivan (ed.) : Globalization and the Nations State.
- I. Brownlie (ed.) : Globalization and the post Colonial World
- R. Clutterbuck : The Third Wave : Democratization in the
- R. Holton : Late Twentieth Century.
- A. M. Hoogvelt : The Age of Terrorism.
- S. P. Huntington : Terrorism. ideology and Revolution : The
- W. Lacquer : Origins of Modern Political Violence.
- No. O. Sullivan (ed.) :

P. Wilkinsom	:	Terrorism and the Liberal State.
গৌরীপদ ভট্টাচার্য	:	আন্তর্জাতিক সম্পর্ক।
নির্মলকান্তি ঘোষ ও পিতম ঘোষ	:	আন্তর্জাতিক সম্পর্ক।
নির্মল কান্তি ঘোষ:	:	আন্তর্জাতিক সংগঠন ও জাতিপুঞ্জ।
শক্তি মুখার্জী ও ইন্দ্রানী মুখার্জী	:	আন্তর্জাতিক সম্পর্ক।
প্রাণগোবিন্দ দাশ	:	আন্তর্জাতিক সম্পর্ক।
রাধারমণ চক্রবর্তী	:	সমসাময়িক আন্তর্জাতিক সম্পর্ক।
অনীক চট্টোপাধ্যায়	:	ঠাণ্ডা যুদ্ধের পর আন্তর্জাতিক সম্পর্ক।

**Part - III : F.M. 400**

PAPER - V

WESTERN POLITICAL THOUGHT

100 Marks

**Unit I**

1. Greek political thought: main features – Plato: justice, communism – Aristotle: state, classifications of constitutions.
2. Roman political thought: theories of Law and Citizenship – contributions of Roman thought.
3. Medieval Political Thought in Europe: Main features.

**Unit II**

1. Medieval political thought in Europe: main features.
2. Political thought of Reformation.
3. Bodin: Contributions to the theory of Sovereignty.

**Unit III**

1. Hobbes: Founder of the science of materialist politics.
2. Locke: Founder of Liberalism: views on natural rights, property and consent.
3. Rousseau's views on Freedom and Democracy.
4. Bentham: Utilitarianism.

**Unit IV**

1. John Stuart Mill's views on liberty and representative government.
2. Hegel: Civil Society and State.
3. Utopian and Scientific socialism: basic characteristics – Anarchism: an outline.
4. Varieties of non-Marxist socialism: Fabianism, Syndicalism, Guild Socialism, German Revisionism.

**: Suggested Readings :**

G. H. Sabine, T. I. Thorson	:	A History of Political Theory.
C. H. McIlwain	:	The growth of Political Thought in the West.
A. K. Mukhopadhyay	:	Western Political Thought from plato to Marx.
S. Mukherjee and S. Ramaswamy	:	A History of Political Thought : Plato to Marx.
William Ebenstein	:	Great Political Thinkers.
Brian R. Nelson	:	Western Political Thought.
Terence Ball	:	Reappraising Political Theory : Revisiting Studies in the History of Political Thought.
R. N. Berki	:	History of Political Thought : A Short Introduction.
Tudor Jones	:	Modern Political Thinkers.
Raymond G. Getell	:	History of Political Thought.
William T. Bluhm	:	Theories of the Political System. Classics

	: of Political Thought and Modern Political Analysis.
John Plamenatz	: Man and Society (2 Vols.)
H. J. Laski	: The Rise of European Liberalism.
John H. Halwell	: Main Currents in Modern Political Thought.
E. Barker	: The Political Thought of Plato and Aristotle.
W. Dunning	: A History of Political Theories (3 Vols.)
David Thomson (ed.)	: Political Ideas.
M. Cranston	: Western Political Philosophers.
Murray Foroyth. Maurice	: A guide to the Political Classics : Plato to
Keens (eds.)	Rousseau
AAvineri	: The Social and Political Thought of Karl
	Marx.
L. Colletti	: From Rousseau to Lenin : Studies in
	Ideology and Society.
D. Germino	: Modern Western Political Thought :
	Machiavelli to Marx.
H. J. Laski	: Political Thought from Loacke to Bentham.
Q. Skinner	: The Foundations of Modern Political
	Thought (2 Vols.)
C. I. Wayper	: Political Thought.
C. E. M. Joad	: Political Thought.
Francis Coker	: Recent Political Thought.
Leszek Kolakowski	: Main Currents of Marxism (3 Vols.)
Dipak Kr. Das and	
Tapan Kr. Chattopadhyay	: Varieties of Socialism.
David Mcllellan	: The Thought of Markl Marx.
David Mcllellan	: Marxism after Marx.
Tom Bottomore ed.	: A-Dictionary of Marxist thought.
Asoke Mehta	: Democratic Socialism.
S. Kukherjee and	
S. Ramaswamy	: A History of Socialist Thought.
অমল কুমার মুখোপাধ্যায়	: রাষ্ট্রদর্শনের ধারা।
অমৃতানন্দ বন্দ্যোপাধ্যায়	: পাশ্চাত্য রাষ্ট্রচিন্তার ইতিহাস।
দেবাশিষ চক্রবর্তী	: রাষ্ট্রচিন্তার ধারা (৩ খণ্ড প্রাচীন ও মধ্যযুগ, ম্যাকিয়াভেলি থেকে রুশো, বেহাম থেকে মাও জে দং)।
সুভাষ চন্দ্র সোম	: রাষ্ট্রচিন্তার ইতিহাস (২ খণ্ড)।
নির্মল কুমার সেন	: রাষ্ট্রচিন্তার ইতিহাস।
সুকান্ত দে (অনুবাদক)	: ঘণরাজ্য (প্রেটোর রিপাবলিক গ্রন্থের অনুবাদ)
নির্মল কান্তি মজুমদার (অনুবাদক)	: অ্যারিস্টটলের পলিটিকস গ্রন্থের অনুবাদ।
সুনীল বরণ বিশ্বাস (অনুবাদক)	: ম্যাকিয়াভেলির 'দ্য প্রিন্স' গ্রন্থের অনুবাদ।
হিমাংশু ঘোষ (ভাষান্তর)	: জর্জ এইচ স্যাভাইন, রাজনৈতিক তত্ত্বের ইতিহাস।
শোভনলাল দত্তগুপ্ত	: কামসীয় রাষ্ট্রচিন্তা : মার্কস থেকে মাও সে তুং।
সুশোভন সরকার	: ইতিহাসের ধারা।
অতীন্দ্রনাথ বসু	: নৈরাজ্যবাদ।
অশোক কুমার মুখোপাধ্যায়	: গণতান্ত্রিক সমাজবাদ।
অরুণ কুমার রায়চৌধুরী (অনুবাদক)	: পাশ্চাত্য রাষ্ট্রচিন্তার ধারা (অমল কুমার মুখোপাধ্যায়)
	'Western Political Thought from Plato to
	Marx' গ্রন্থের অনুবাদ।

PAPER VI: INDIAN POLITICAL THOUGHT AND MOVEMENT 100 Marks

Unit I

1. Features of ancient Indian political ideas: an overview – Kautilya: Saptanga theory, Dandaniti, Diplomacy.
2. Medieval political thought in India: legitimacy of kingship – duties and responsibilities of a Muslim ruler.
3. Modern Indian thought: Rammohan Roy, as pioneer of Indian liberalism – his views on Rule of Law, Freedom of thought and Social Justice.
4. Bankimchandra, Vivekananda and Rabindranath: views on nationalism.

Unit II

1. Gandhi: State and Trusteeship.
2. M.N. Roy: Radical Humanism.
3. Narendra Deva: contributions to socialism.
4. Syed Ahmed Khan: views on colonial rule and modernization.

Unit III

1. Foundation of the Indian National Congress.
2. Bengal Partition and Swadeshi movement.
3. Khilafat and Non-Cooperation Movement – Civil Disobedience movement
4. Alternatives to Congress politics: (a) Subhas Chandra Bose and Forward Bloc (b) Congress Socialist Party (c) the Communists.

Unit IV

1. Movements against caste system and untouchability – Ambedkar's views on Social Justice and Depressed Class.
2. Class and the nationalist movement under colonial rule: working class movement and peasant movement.
3. Roots of communal politics: Savarkar and Hindu nationalism, Jinnah and two-nation theory.
4. August 1942 movement – the INA – Naval uprisings.

**: Suggested Readings :**

- R. S. Sharma : Aspects of Politics of Political Ideas and Institution in Ancient India.
- D. Mechanize Brown : The White Umbrella.
- A. T. Embree (ed.) : Sources of Indian Tradition (Vol. 1).
- Stephen Hay (ed.) : Sources of Indian Tradition (Vol. 2)
- T. Pantham and K. L. Deutsch (eds.) : Political Thought in Modern India.
- Debesh Roychoudhury and Tarun Banerjee (eds.) : Colonial India : Ideas and Movements.
- Sumit Sarkar : Modern India.
- A. R. Desai : Social Background of India Nationalism.
- Bipan Chandra et. al. : India's Struggle for Independence.
- Advaita Ashram : Complete work of Swami Vivekananda. (Vol. 4)
- U. N. Ghoshal : The History of Hindu Political Theories.
- P. C. Bamford : Histories of Khilafat & Non-Cooperation Movement.
- Dipak Kumar Das : Revisiting Talwar : A Study of the Royal Indian Navy Uprising February 1946.
- J. Bandopadhyay : Social and Political Thought of Gandhiji.
- W. N. Kuber : Dr. Ambedkar. A Critical Study
- C. Jeffrelot : Hindu Nationalism in India.
- D. D. Kosambi : Ancient India.

Government of India	: Government and Economic life is Ancient and Modern India.
Romila Thapar	: From Lineage to State.
J. M. Spellman	: Political Theory in Ancient India.
V. P. Varma	: Hindu Political Thought.
P. R. Tripathy	: The State and Religion in Mughal India.
K. a. Nizami (ed.)	: Politics and Society during the early mediaeval period.
H. Habib. A. Afzahuddin	: Political Theory of Delhi Sultanate.
V. R. Mehta	: Foundation of Indian Political Thought : An Interpretation.
Beni Prasae	: The State of Ancient India.
B. Bhattacharyya	: Evolution of The Political Philosophy of Gandhi.
Sankar Ghosh	: Socialism and Communism in India.
Bipan Chandra	: Nationalism and Colonialism in Modern India.
Shashi Joshi and Bhagwan Joshi	: Struggle for hegemony in India : 1920 – 1947 (Vol. I – III)
A. R. Desai	: Recent Trends in Indian Nationalism.
K. N. Panikkar (ed.)	: Nationalism and Left Movement of India.
Mohin Sakir	: Khilafat to Partition.
B. R. Nanda	: Gandhi and his critics.
D. N. Dhanagare	: Present Movement in India : 1920 – 1950.
Sukomal Sen	: Working Class in India.
Rakhahari Chatterjee	: Working Class and nationalist Movement.
B. B. Majumder	: Militant Nationalism in India.
J. Nehru	: Discovery of India.
Dhananjoy Kcer	: Ambedkar : Life and Mission.
K. N. Kadam (ed.)	: Dr. B. R. Ambedkar.
B. P. Karunkaran	: Indian Politics from Dadabhai Naoraji to Gandhi. A Study of Political ideas of Modern India.
Dhirendranath Sen	: Revolution by Consent?
B. B. Majumder	: History of Indian Social and Political Ideas from Rammohan to Dayananda.
A. Tripathi	: The Extermist Challenge.
Partha Chatterjee	: Nationalist thought and the colonial world
Hiren Mukherjee	: A Derivative Discourse.
Sumit Sarkar	: India's Freedom Struggle.
Rabindranath Tagore	: The Swadeshi Movement in Bengali.
K. N. Mukherjee	: Nationalism.
P. Kanungo	: The Philosophy of Rabindranath Tagore.
S. K. Chaube	: RSS : Tryst with Destiny. From Hedgeway to Sudarshan.
Sudipa Kabiraj	: Colonialism. Freedom Struggle and Nationalism in India.
R. P. Dutta	: The Unhappy Consciousness.
Ysuf Mcherlly (ed.)	: India Today.
স্বামী লোকেশ্বরানন্দ (সম্পাদিত)	: Narendra Deva : Socialism and National
সুধীন্দ্রনাথ ভৌমিক	: Revolution.
কেশব চৌধুরী	: চিন্তনায়ক বিবেকানন্দ।
নরেন্দ্রনাথ ভট্টাচার্য	: নব্যবঙ্গে রাষ্ট্রচিন্তার ধারা।
	: ভারতীয় জাতিতাবাদের ভিত্তি ও স্বরূপ।
	: ভারতের স্বাধীনতা আন্দোলনের ইতিহাস।

সরল চট্টোপাধ্যায়	:	ভারতের স্বাধীনতা সংগ্রামের ক্রমবিকাশ।
ডালিম কুমার বন্দ্যোপাধ্যায়	:	সুভাষ চন্দ্র বসু : সামাজিক ও রাজনৈতিক চিন্তাধারা।
রণবীর সমাদ্দার	:	ভারতের জাতীয় আন্দোলন ও জাতীয় সংহতির সমস্যা।
শান্তিলাল মুখোপাধ্যায়	:	নব্যযুগের প্রবর্তনায় স্বামী বিবেকানন্দ।
অমলেশ ত্রিপাঠী	:	স্বাধীনতা সংগ্রামে ভারতে জাতীয় কংগ্রেস।
অমলেশ ত্রিপাঠী	:	ভারতের মুক্তি সংগ্রামে চরমপন্থী পর্ব।
বিপান চন্দ্র	:	আধুনিক ভারত ও সাম্প্রদায়িকতা।
দীপক নাগ	:	মহাভারত ও রামায়ণে শাসন ও রাজনীতি।
সত্যব্রত চক্রবর্তী (সম্পাদিত)	:	ভারতবর্ষ : রাষ্ট্রভাবনা।
সৌরেন্দ্রমোহন গঙ্গোপাধ্যায়	:	বাঙালীর রাষ্ট্রচিন্তা (২ খণ্ড)
সুমিত সরকার	:	আধুনিক ভারত।
মনস্বিতা সান্যাল	:	A. S. Desai 'Social Background of India nationalism' গ্রন্থের অনুবাদ, ভারতীয় জাতীয়তাবাদেব সামাজিক পটভূমি।
ভারতী মুখার্জী	:	প্রাচীন ভারতবর্ষের রাষ্ট্রনৈতিক চিন্তা।
গৌতম চট্টোপাধ্যায়	:	সমাজতন্ত্রের অগ্নিপরীক্ষা ও ভারতের কমিউনিস্ট আন্দোলন।
দেবাশিষ চক্রবর্তী	:	ভারতীয় রাষ্ট্রচিন্তার ধারা।
অনাদি কুমার মহাপাত্র	:	ভারতীয় রাষ্ট্রদর্শন।
সুজিত সেন (সম্পাদিত)	:	সাম্প্রদায়িকতা—সমস্যা ও উত্তরণ।
কল্যাণ কুমার সরকার	:	ভারতীয় রাষ্ট্র চিন্তার ইতিহাস।
তরুণ কুমার বন্দ্যোপাধ্যায়	:	নেতাজী সুভাষ চন্দ্রের রাষ্ট্রদর্শন : একটি রূপেরখার সন্ধানে।
নুসিংহ প্রদান ভাদুড়ি	:	দণ্ডনীতি।

PAPER VII:

POLITICAL SOCIOLOGY

100 Marks

**Unit I**

1. Social bases of politics.
2. Process of State formation and nationalism in West Europe and third world.
3. Social stratification and politics: caste, class, elite.

**Unit II**

1. Gender and politics: basic issues.
2. Power, Authority and Legitimacy.
3. Religion, Society and Politics – religion in society: different views.

**Unit III**

1. Classification and types of political systems.
2. Political culture and Political socialization: nature, types and agencies.
3. Political participation: concept and types.
4. Groups in politics: Parties and Pressure groups.

**Unit IV**

1. Political communication: concept and features.
2. Electorate and electoral behaviour (with reference to India)
3. Military and politics: conditions and modes of intervention.
4. Political development and social change – role of tradition and modernity.

**: Suggested Readings :**

Michel Rush	:	Politics and Society.
Tom Bottomore	:	Political Sociology.
Amal Kumar Mukhopadhyay	:	Political Sociology.
Ali Asraf. L. N. Sharma	:	Political Sociology.



C. Clapham	:	Thrid World Politics.
Peter Harris	:	Foundations of Political Science.
G. Ponton. P. Gill	:	Introducation to Politics.
M. Weiner. S.	:	
Huntington (eds.)	:	Understanding Political Development.
V. Randall, R. Theobald	:	Nationalism and the State.
Rakhahari Chatterjee (ed.)	:	Religion, Politcs and Communalism.
Tom Botomore	:	Clases in Modern Society
H. Letever	:	The Sociology of Marx.
A. Pizzorono (ed.)	:	Political Sociology.
B. Lindenfeld (ed.)	:	Reader in Political Sociology.
G. C. Runciman	:	Social Science & Political Theory.
R. Bendix (ed.)	:	State and Society.
H. Gulbourne	:	Politics & State in the Third World.
P. Commack. D. Pool and	:	
W. Tordorr	:	Third World Politcs : A comparative
	:	Introduction
	:	Politics of Third World.
C. Capham	:	
B. Nelson and	:	
N. Chowdhury (eds.)	:	Women and Politics World wide.
R. L. Sivard	:	Women : A world Survey
H. Asfah (ed.) Women and Politics	:	in the Third World.
J. M. Bystdzienski (ed.)	:	Women Transforming Politics : Worldwide
	:	strategies Empowerment.
K. Faulks	:	Political Sociology, A. Critical Introductions.
Satyabrata Chakraborty (ed.)	:	Women Transforming Politics : Worldwide
	:	strategies Empowerment.
K. Faulks	:	Political Sociology, A. Critical Introductions.
Satyabrata Chakraborty (ed.)	:	Political Sociology.
T. K. Oomen	:	State and Society : Studies in Nation
	:	Building.
C. E.Fuller (ed.)	:	Caste Today.
Donald E. Smith (ed.)	:	Religion and Political Modernization.
J. Forbes	:	Women in modern India.
G. Evans	:	The Femmists.
M. Evans (ed.)	:	The Women Question.
H. Eisenstein	:	Contemporary Feminist Thought.
S. E. Finer	:	Comparative Government.
M. Duverger	:	Political Parties.
Samuel Huntington	:	Political Order in a Changing Society.
G. a. Almond and J. S.	:	
Coleman (eds.)	:	The Politics of Developing Areas.
G. A. Almond and S. Verba	:	The Civic Culture.
H. V. Wiseman	:	Political Parties.
S. E. Finer	:	Man on the Horseback.
S. E. Finer	:	Anonymous Empire.
Seymour Martin Lipset (ed.)	:	Politcs and the Social Science.
S. M. Lipset	:	Political Man.
Jean Blondel (ed.)	:	Comparative Government.
D. Apter	:	Politics of Modernization.
Lucian Pye	:	Aspects of Political Development.
অনাদি কুমার মহাপাত্র	:	রাজনীতিক সমাজতত্ত্ব।
মৃগালকান্তি ঘোষ দস্তিদার	:	রাজনৈতিক সমাজবিজ্ঞান।
নির্মলকান্তি ঘোষ ও পিতম ঘোষ	:	রাজনৈতিক সমাজতত্ত্ব।

সত্যব্রত চক্রবর্তী (সম্পাদিত) : রাষ্ট্রসমাজ রাজনীতি।

PAPER VIII:

PUBLIC ADMINISTRATION

100 Marks

### Unit I

1. Nature, Scope and Evolution of Public Administration – Private and Public Administration – Principles of Socialist Management.
2. Challenges to the discipline of Public Administration and responses: New Public Administration, Comparative Public Administration and Development Administration (with special reference to India).
3. Major concepts of administration: (a) Hierarchy (b) Unity of command (c) Span of control (d) Authority (e) Centralization, Decentralization and Delegation (f) Line and Staff.
4. Bureaucracy: Views of Marx and Max Weber.

### Unit II

1. Ecological approach to Public Administration: Riggsian Model.
2. Administrative Processes: (a) Decision making (b) Communication and Control (c) Leadership (d) Co-ordination.
3. Policy-making: Models of policy making – policies and implementation.

### Unit III

1. Continuity and change in Indian administration: a brief historical outline.
2. The Civil Service in India (Bureaucracy): recruitment (role of UPSC, SPSC), training.
3. Organization of the Union Government: Secretariat Administration: PMO, Cabinet Secretariat.
4. Organization of the State Government: Chief Secretary – relationship between Secretariat and Directorate.
5. District Administration: changing role of District Magistrate.

### Unit IV

1. Local Self Government: Corporations, Municipalities and Panchayats in West Bengal: structure and functions – 73<sup>rd</sup> and 74<sup>th</sup> Amendment: an overview.
2. Planning and plan administration: Planning Commission, National Development Council, District Planning.
3. Financial Administration: Public Accounts Committee, Estimates Committee – role of CAG.
4. Citizen and administration: functions of Lokpal Lokayukt.

### Question Pattern

The present system should continue. Students will have to write (i) two short notes – each carrying 5 marks – out of four, and (ii) one broad question of 15 marks out of two from each Unit.

### Number of Lectures

There should be 64 classes per week for 8 honours papers, i.e. 8 classes a week for each paper.

NOTE: The syllabus of General Course remain unchanged.

### : Suggested Readings :

- |                     |   |  |
|---------------------|---|--|
| Nicholas Henry      | : | Public Administration and Public Affairs.                  |
| C. McCurdy          | : | Public Administration : A Synthesis.                       |
| Mohit Bhattacharya  | : | Public Administration : Structure Processes and Behaviour. |
| S. R. Maheswari     | : | Indian Administration.                                     |
| M. P. Sharma        | : | Public Administration in Theory & Practices.               |
| R. T. Golembiewski. | : | Public Administration as a Developing Discipline.          |
| W. N. Gunn          | : | Public Policy Analysis.                                    |

Prabhat Datta	: Panchayats, Rural Development and Local Authnomy.
S. R. Maheswari	: Administrative Theory.
Ramesh Arora	: Comparative Public Administ RATION
R. K. Sapru	: Development Administration.
F. A. Nigron. L. G. Nigro	: Modern Public Administration.
Pai Panandikar	: Bureaucracy and Development in India.
Prarbhath Kumar Datta	: Public Administration and the State.
Asok Mukhopadhyaya	: Muicpal Government.
Ahok Mukhopadhyay	: Panchayat Administration in West Bengal.
Mohit Bhattacharya,	
Prabhat Kumar Datta	: Governing Rural India.
R. B. Jain	: Contemporary issues in Indian Administration.
A. Avasthi, S. Avasthi	: Public Administration.
Debesh Roy Chowdhury	: Sociology of Public Administration
R. T. Golembewwski	: Sociology of Public Administration.
G. Givishianni	: Prganisation and management.
M. Bhattacharya	: Rtestructuring Public Administration :
G. E. Caiden	: Essays in Rehabilitation.
H. Singh and M. Singh	: Dynamics of Public Administration :
J. Rabin et. al. (eds.)	: Guidelins to Current Transformation in Theory and Practice.
S. P. Verma and S. N. Swaroop	: Public Administration in India : Theory and Practice.
R. B. Jain and O. P. Dwivedi	: Handbook of Public Administration.
C. P. Bhambri	: Personnal Administration.
B. K. Dey	: India's Administrative State.
P. R. Dubhashi	: Administrators in a changing Society
G. H. G. Frederickson	: Bureaucracy and Politics in India.
Ravindra Presad et. al. (eds.)	: Personnel administration in India
A. K. Dubey	: Retrospective Issues, Prospective Thought.
S. R. Maheswari	: The Proffession of Publi9c Administration.
M. Bhattacharya	: New Public Administration.
George Gant	: Administrative Thinkers.
S. Maheswari	: District Administration in India.
Prabhat Datta	: Local Government in India.
Padhma Ramchandram	: Bureaucracy and development Administration
Rumki Basu	: Development Administration Concepts, Goals, Methods.
অসিত বসু	: Indian Administrarion
প্রভাত দত্ত	: The Second Generation Panchyats in India
মোহিত ভট্টাচার্য ও বিশ্বনাথ ঘোষ	: Public Administration in India.
সুভাষ চন্দ্র সোম	: Public Administration Key concepts.
রুমকি বসু ও পঞ্চানন চট্টোপাধ্যায়	: পশ্চিমবঙ্গের পঞ্চগয়েত ব্যবস্থা।
তপন বন্দ্যোপাধ্যায়	: প্রসঙ্গ : পঞ্চগয়েত।
দেবাশিষ চক্রবর্তী	: জনপ্রশাসন ও পরিকল্পনা।
সোমা ঘোষ	: জনপ্রশাসন।
রাজশ্রী বসু	: লোক প্রশাসন।
	: জনপ্রশাসনের রূপরেখা : তত্ত্ব ও প্রয়োগ।
	: গণ-প্রশাসন, পরিচালন ব্যবস্থা ও পরিকল্পনা।
	: জনপ্রশাসন তত্ত্ব ও প্রয়োগ।
	: জনপ্রশাসন।

# **UNIVERSITY OF CALCUTTA**

## **SYLLABI**

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## **THREE-YEAR HONOURS & GENERAL DEGREE COURSES OF STUDIES**



**HISTORY**

**2010**

**B.A. HONOURS COURSE OF STUDIES IN HISTORY**

***Division of papers for the Undergraduate Honours course in History***

**Part I**

1. History of India from the earliest Times to 600 CE [Existing Paper I]
2. History of India from C 600 to C1500 [Existing Paper II]

**Part II**

3. Transformation of Europe (15<sup>th</sup> – 17<sup>th</sup> Centuries) [Existing Paper III]
4. History of India from C1500 to C1800 [Existing Paper V]

**Part III**

5. ( Group A)History of East Asia from 1839 to 1950  
OR

(Group B)Aspects of Antiquity [Existing Paper IV]

6. History of India from C1800 to 1964 [Existing Paper II]
7. History of Europe from 1789 to 1919 [Existing Paper VII]
8. World Politics in the 20<sup>th</sup> Century from 1919 to C2000 [Existing Paper VIII]

**PART-I**

**PAPER-I**

**History of India from the earliest Times to 600 CE**

**UNIT-I (50 marks; 40 lectures)**

**Module-I**

**Sources of Early Indian History**

- 1.1 Classification and importance of both Literary and Archaeological sources
- 1.2 Understanding the nature of the sources for each period
- 1.3 History and Itihasa

**Module-II**

**Changing Relationship between people and landscape, from hunter-gatherers to post Harappan cultures in the Indian subcontinent**

- 2.1 The importance of understanding archaeological cultures viz a` viz landscape features- Hunter Gatherers to Early Pastoralists and Agriculturists
- 2.2 An over view of archaeological cultures in the subcontinent- pre-Mehrgarh , Mehrgarh and contemporary to Mehrgarh
- 2.3 Early/Pre Harappan Cultures-Prelude to Harappan Civilization -Harappan Civilization- the First Urbanization

2.4 Pastoralist/Early agriculturist Cultures contemporary to the Harappan-various Neolithic and Chalcolithic cultures of the Indian subcontinent

2.5 Decline of the Harappan civilization-Late/Post Harappan Cultures- a) Cemetery H phase, b) Gandhara Grave phase, c) Lustrous Red Ware.

### **Module –III**

#### **The Vedic Corpus and transition to the age of Janapadas and Mahajanapadas (c.1500BCE-400 BCE)**

3.1 Spread of settlements -Political situation

3.2 Aryan Debate

3.3 Archaeological cultures beyond the Vedic milieu—Ochre coloured pottery, Black & Red Ware and Painted Grey Ware

3.4 Transition from chiefdom to kingdom- the Ganasangha tradition- sixteen mahajanapadas- Pre-eminence of Magadha

### **Module-IV**

#### **Mauryan & Post –Mauryan India (c. 400BCE-300CE)**

4.1 Nature and extent of the Mauryan empire

4.2 Asoka's Dhamma

4.3 Decline of the Empire - rise of regional power centres in the post Mauryan period.

4.4 Central Asian intervention in north Indian politics focusing on the Indo-Greeks and the Kushanas

4.5 The Satavahanas and their struggle with the Saka Kshatrapas of western India

4.6 Kings and chieftains –the Cheras, Cholas and Pandyas- Sangam literature and archaeological evidence.

### **Module- V**

#### **The Age of the Guptas (c.300CE – 600CE)**

5.1 Historical situation of India in 300CE—Emergence of the Gupta empire

5.2 The Empire in its mature form- Political achievements of the rulers-disintegration of the empire

5.3 Administrative structure of the empire with special reference to Bengal

5.4 Notion of Classical age and Threshold times

5.5 An introduction to the contemporary dynasties like the Vakatakas, the Kadambas etc.,

## **UNIT-II (50 marks; 40 lectures)**

### **Module-I**

#### **Aspects of Society**

1.1 Beginning of the Varna hierarchy in the Vedic period- forms of marriage- position of women

1.2 Varna and Jati- property rights of women

1.3 Slavery, Untouchability and attitude towards women

## **Module-II**

### **Religious Development**

- 2.1 Vedic religion—Changing notion of gods and goddesses-Sacrificial practices
- 2.2 Rise of new religious groups & philosophical thoughts—Buddhism, Jainism and philosophy of the Ajivikas and Charvakas
- 2.3 Doctrinal and philosophical Changes in Buddhism and Jainism – Rising Importance of the Brahmanical religion-Different Brahmanical religious groups.

## **Module III**

### **Comparative Structures of Economies in some early states-Maurya- Satavahana-Kushana-Gupta**

- 3.1 Introduction
- 3.2 Agrarian economy
- 3.3 Non-agricultural production-crafts-guilds
- 3.4 Monetization
- 3.5 Land grants and its politico-economic significance (Gupta period)

## **Module-IV**

### **Patterns of Trade, Urbanization & Routes of communication**

- 4.1 Trade and Urban development-Second urbanization
- 4.2 Trading networks-both inland and maritime (with special reference to linkage with Roman Empire as well as Southeast Asian countries)
- 4.3 Merchants and Markets

## **Module-V**

### **Cultural life**

- 5.1 Languages and Scripts –An overview
- 5.2 Nature of Mauryan art-Presence of different schools of sculpture and terracotta art in the post-Mauryan period
- 5.3 Different kinds of Religious Architecture, Sculptural art and Painting-an overview
- 5.4 Systems of knowledge- Science, Technology &Medicine

## **Suggested Readings**

A.L.Basham, *The Wonder That Was India*, London, 1954.

Irfan Habib (general editor), *A People's History of India* (Relevant volumes), New Delhi.

Vol. 1 *Pre-history*,

Vol. 2 *The Indus Civilisation*,

Vol. 3 *The Vedic Age*,

D.N.Jha, *Ancient India: An Introduction*, New Delhi, 1998.

D.D.Kosambi, *An Introduction to the Study of Indian History*, Bombay, 1956.

----- *Combined Methods in Indology and Other Writings, Edited and Introduced by B.D.Chattopadhyaya.*, 2007 (revised edition)

# **History General**

## **Paper I**

### **Ancient & Medieval Indian History upto 1556**

#### **Unit – I**

##### **Module – 1**

- 1.1 Literary and Archaeological sources of Ancient and Medieval Indian History.
- 1.2 Historical understanding of the rise and decline of the Indus Vally Civilization.

##### **Module – 2**

- 2.1 Political Developments: Indian Polity in early and later vedic times.
- 2.2 The Mahajanapadas – The rise and fall of the Maurya Empire.
- 2.3 The Satavahana and Kushana rule.

##### **Module – 3**

- 3.1 The Imperial Guptas – regional powers and the struggle for power in North India.
- 3.2 Political developments in South India



#### Module – 4

Society, religion and economy of Ancient and Early medieval India, (A broad overview) with special reference to the position of women, trade and commerce, crafts and guilds debate on feudalism.

#### Module – 5

5.1 Art, Architecture, Science, Literature and culture of Ancient and early medieval India.

### **Unit – II**

#### Module – 1

- 1.1 Impact of Islam and Political changes in India. A brief overview of the Delhi Sultanate, its administrative machinery
- 1.2 Theory of Kingship
- 1.3 Independent Sultans of Bengal.

#### Module – 2

Society, Religion, Culture and Economy of the Delhi Sultanate (A broad overview).

#### Module – 3

- 3.1 Disintegration of the Sultanate
- 3.2 Foundation of Mughal Empire.

#### Module – 4

- 4.1 Mughal-Afghan Conflict
- 4.2 Sher shah as an empire builder and an administrator.

#### Module – 5

Akbar and the consolidation of the Mughal Empire.

**Suggested Readings** (for History General Paper I)

- 1) H.C. Roychaudhury, K.K. Dutta, R.C. Majumdar, Advanced History of India
- 2) N.K. Sinha & N.R. Ray, History of India
- 3) Satish Chandra, Medieval India.
- 4) Ram Saran Sharma, Ancient India
- 5) S.N.Sen, Advanced History of Ancient and Medieval India

**Paper-II**

**Indian History from 1556 to 1947**

**Unit-1**

**Module -1**

- 1.1 Akbar and the Political expansion of Mughal Empire.
- 1.2 Akbar's relation with the Rajputs.
- 1.3 Evolution of Akbar's religious policy.

**Module -2**

- 2.1 The Manasabdari System and the emergence of a composite ruling class.
- 2.2 Expanding frontiers of Mughal Empire in post-Akbar India.

**Module -3**

- 3.1 Climax and crisis of the Mughal Empire under Aurangzeb: Aurangzeb's entanglements in the Deccan .
- 3.2 Rise of Shivaji and the Mughal –Maratha Contest for supremacy.
- 3.3** Changes in the Rajput policy and the religious policy of the Mughals in the reign of Aurangzeb.

**Module -4**

- 4.1 Mughal economy: land revenue - commercial expansion.

4.2 Mughal art and architecture.

4.3 Historiographical debate on the break up of the Mughal Empire .

### **Module -5**

5.1 Political ascendancy of the English East India Company in Bengal (1757-65)

5.2 English East India Company's relation with the Indian states – Marathas, Mysore , Sikhs .

5.3 British policies of colonial annexation – subsidiary alliance, Doctrine of Lapse.

### **Unit-2**

#### **Module -1**

1.1 Colonial economy: Land revenue settlements - Bengal, North India, South and west India.

1.2 Drain of wealth.

1.3 De-industrialization.

#### **Module -2**

2.1 English education in Bengal up to 1857.

2.2 Indian response to westernization: Raja Ram Mohan Roy – Young Bengal, Vidyasagar - Prarthana Samaj - Arya Samaj .

2.3 Aligarh movement and the modernization of Islam.

#### **Module -3**

3.1 Early resistance to colonial rule: Wahabi and Faraizi movements – Santal rebellion.

3.2 The revolt of 1857.

3.3 Growth of National Consciousness: Politics of Association - The Birth of Indian National Congress.

#### **Module -4**

4.1 The nature of early Congress under moderate leadership.

4.2 Ideology and programme of militant nationalists.

4.3 The Swadeshi movement.

4.4 The birth of All India Muslim League.

4.5 Revolutionary terrorism in Bengal and Punjab.

4.6 Impact of the First World War on Indian economy, society and polity.

#### **Module -5**

- 5.1 Gandhi and Indian National Movement: Rise of Gandhi - Rowlatt Satyagraha - Khilafat - Non-Cooperation - Civil Disobedience and Quit India Movement.
- 5.2 Nationalist Revolutionary Movements.
- 5.3 Subhas Chandra Bose, the Indian National Army and the Indian Freedom Movement.
- 5.4 Post war upsurge and the different strands of protest politics.
- 5.5 Communal Politics culminating in the partition and transfer of power.

### **Suggested Reading**

1. Irfan Habib, Medieval India: The study of a civilization.
2. Satish Chandra, Medieval India Part Two Mughal Empire.
3. Sekhar Bandopadhyaya, From Plassey to Partition.
4. Sumit Sarkar, Modern India 1885 – 1947.
5. Bipan Chandra, India's Struggle for Independence

## **Paper III**

### **Modern Europe from 1789 to 1939 A.D.**

#### **Unit – I**

##### **Module – 1**

- 1.1 Background –
- 1.2 Renaissance and Reformation
- 1.3 Geographical Discoveries
- 1.4 Scientific Revolution, Advent of Capitalism (A brief overview)

##### **Module – 2**

- 2.1 The French Revolution – socioeconomic background: Role of the philosophers.
- 2.2 Progress of the Revolution: Popular Movements: Jacobins and Girondins.

##### **Module – 3**

- 3.1 Rise of Napoleon: Internal Reconstruction
- 3.2 Napoleon and Europe. Napoleon and revolution.

##### **Module – 4**

- 4.1 Political Developments in Europe from (1815 – 1870)

4.2 Triumph of conservatism – The Matternich System Stages of Italian Unification

4.3 Unification and Consolidation of Germany

4.4 Russia: Attempts at Reforms by Alexander II.

#### Module – 5

5.1 Society and Economy in Nineteenth Century Europe

5.2 Industrial Advances in England and the Continent

5.3 Utopian Socialism and Marxism

5.4 Art, Culture, Literature and Science.

#### **Unit – II**

##### Module – 1

Europe between 1871-1914: New Balance of Power, scramble for colonies in asia and Africa.

##### Module – 2

The Eastern Question: Main Issues – Crimean War, Balkan Nationalism (A brief overview)

##### Module – 3

3.1 Triple Alliance, Triple Entente and the emergence of two armed camps;

3.2 Origins of the First World War – Issues and Stakes;

3.3 Russian Revolution of 1917.

##### Module – 4

4.1 Peace settlement of 1919: Its long term consequences

4.2 Birth of the German Republic.

##### Module – 5

5.1 Europe in the Inter War period (1919-1939).

5.2 Consolidation of economic and political power of the Soviet State;

5.3 Rise of Fascism in Italy;

5.4 Rise of Nazism in Germany; Aggressive foreign politics;

5.5 Outbreak of the second World War.

### **Suggested Readings**

- 1) Ketelbey, History of Modern Times.
- 2) David Thomson, Europe Since Napoleon.
- 3) Norman Lowe, Mastering the Modern World.

## **Paper IV**

### **India and the World**

#### **UNIT-I: INDIA 1947 – 1964**

##### **Module-1**

1.1 Understanding the causes of the partition of India .

1.2 Impact of Partition on Indian polity, economy , society and culture .

##### **Module-2**

2.1 Adoption of a republican constitution in 1950 : Salient features of the Indian Constitution.

2.2 Nehru and the development of Parliamentary democracy in India .

##### **Module-3**

Economic Planning : First three five year plans .

##### **Module-4**

Social movements in contemporary India .

##### **Module-5**

5.1 Indo-Pakistan relations .

5.2 India and the Non-Aligned Movement .

#### **UNIT-II: WORLD 1945 – 1991**

##### **Module-1**

Debate on the origins of the cold war.

### **Module-2**

- 2.1 Cold war and the emergence of the U.S and Soviet military and economic alliances – NATO , IMF , WARSAW , WTO .
- 2.2 U.S. Foreign policy in the post-war period; Truman Doctrine and Marshall Plan .

### **Module-3**

- 3.1 Bipolarism and regional conflicts :
- 3.2 War in Korea
- 3.3 Conflict in the Middle East: Arab-Israel War of 1948-49 , 1967 , 1973 .

### **Module-4**

- 4.1 Impact of the emergence of China on the Worlds Politics.
- 4.2 Sino-Indian relations.

### **Module-5**

- 5.1 India and the liberation war of Bangladesh.
- 5.2 The liberation struggle of Vietnam (1954-75).

### **Module-6**

End of the socialist regime and the disintegration of U.S.S.R.

#### **Suggested Reading**

1. Bipin Chandra and the others ed, India After Independence 1947- 2000 .
2. Sugata Bose and Ayesha Jalal, Modern South Asia History , Culture , Political Economy .
3. Mushirul Hasan ed, India's Partition Process , Strategy and Mobilization .
4. Mushirul Hasan ed, India's Partitined .The Other Face of Freedom 2 Volumes .
5. Jaya Chatterjee, Spoils of Partition , The Bengal and India 1947-67 .
6. P.Calvocoressi, World since 1945 .
7. W.R.Keylor, The 20<sup>th</sup> century World : An International History .

### **Question Pattern in General:**

2 x 10 from 10 Questions

5 x 4 from 8 Questions

20 x3 from 8 Questions

# **UNIVERSITY OF CALCUTTA**

## **SYLLABI**

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**THREE-YEAR HONOURS AND GENERAL  
DEGREE COURSES OF STUDIES**



## **PHILOSOPHY**

**2010**



## **Syllabus for Three-Year B.A. (Honours) Course in Philosophy**

Minimum number of classes per paper of 100 marks: 100

### **Part I**

**Paper I:** INDIAN PHILOSOPHY 100 marks

**Paper II:** PSYCHOLOGY & SOCIAL-POLITICAL PHILOSOPHY 100 marks

### **Part II**

**Paper III:** HISTORY OF WESTERN PHILOSOPHY 100 marks

**Paper IV:** LOGIC 100 marks

### **Part III**

**Paper V:** INDIAN LOGIC AND EPISTEMOLOGY 100 marks

**Paper VI:** PHILOSOPHY OF LANGUAGE, EPISTEMOLOGY AND METAPHYSICS  
(WESTERN) 100 marks

**Paper VII:** ETHICS AND PHILOSOPHY OF RELIGION 100 marks

**Paper VIII:** OPTIONAL PAPER (ANY OF THE FOLLOWING) 100 marks

**A:** Vedāntasāra - Sadānandayogīndra—(Entire Text).

**B:** An Enquiry Concerning Human Understanding: David Hume

**C:** The Problems of Philosophy: Bertrand Russell

**D:** Western Logic

**E:** Ethics

**F:** Contemporary Indian Philosophy

## **Syllabus for Three-Year B.A. (General) Course in Philosophy**

Minimum number of classes per paper of 100 marks: 100

### **Part I**

**Paper I: METAPHYSICS AND EPISTEMOLGY-INDIAN & WESTERN** 100 marks

### **Part II**

**Paper II: WESTERN LOGIC & PSYCHOLOGY** 100 marks

**Paper III: ETHICS AND PHILOSOPHY OF RELIGION** 100 marks

### **Part III**

**Paper IV: SOCIAL-POLITICAL PHILOSOPHY AND CONTEMPORARY INDIAN THOUGHT**

100 marks

## **PHILOSOPHY (GENERAL COURSE) (3 YEAR, B.A.)**

### **PART-I**

#### **PAPER-I**

**(EPISTEMOLOGY AND METAPHYSICS—INDIAN AND WESTERN)** 100 marks

#### **Half-I**

**(50 marks)**

#### **Indian Epistemology and Metaphysics**

#### **Unit-I**

- A. Cārvāka Epistemology: Perception as the only source of Knowledge; Refutation of Inference and Testimony as source of Knowledge.
- B. Nyāya Epistemology: The Nature of Perception; Laukika Śannikarṣa; Determinate (Savikalpaka) and Indeterminate (Nirvikalpaka) Perception; Anumāna; Sādhyā; Pakṣa, Hetu, Vyāpti, Paramarsa and Vyāptigraha; Svārthānumiti and Parārthānumiti; Pañcāvayavi Nyāya.

#### **Unit-II**

- A. Vaiśeṣika Metaphysics: Categories—Dravya, Guṇa, Karma, Sāmānya, Viśeṣa , Samavāya, and Abhāva.  
B. Advaita Metaphysics: Brahman, Māyā, The relation between Jīva and Brahman.

**Half-II**

**(50 marks)**

**Western Epistemology and Metaphysics**

**Unit-III**

- A. Different senses of ‘Know’, Conditions of Propositional Knowledge, Origin of Concepts: Concept Rationalism-Views of Descartes and Leibniz, Concept Empiricism-Views of Locke, Berkeley and Hume.  
B. Theories of the origin of Knowledge: Rationalism, Empiricism, Kant’s Critical Theory.  
C. Realism: Naïve Realism, Locke’s Representationalism.  
Idealism: Subjective Idealism (Berkeley)

**Unit-IV**

- A. Causality: Entailment Theory, Regularity Theory  
B. Mind-Body Problem: Interactionism, Parallelism and the Identity Theory.

**Suggested Readings:**

- A Critical Survey of Indian Philosophy: C.D. Sharma
- An Introduction to Indian Philosophy: D. M. Dutta & S.C. Chatterjee
- Nyaya-Vaisesika Darshan: Karuna Bhattacharya
- Bharatiya Darshan: Nirodbaran Chakraborty
- Bharatiya Darshan: Samarendra Bhattacharya
- An Introduction to Philosophical Analysis: J. Hospers
- An Introduction to Philosophy: Shibapada Chakraborty
- Paschatya Darshan O Yuktivijnan: Ramaprasad Das
- Paschatya Darshaner Ruparekha: Ramaprasad Das o Shibapada Chakraborty
- Paschatya Darshan O Yuktivijnan: Samir Kumar Chakraborty
- Paschatya Darshan: Samarendra Bhattacharya

**PART-II**

**PAPER—II**

**(WESTERN LOGIC AND PSYCHOLOGY)**

100 marks

**Half-I**

**(50 marks)**

**Western Logic**

**Unit-I**

- A. Introductory topics: Sentence, Proposition, argument, truth and validity.
- B. Aristotelian classification of categorical propositions, distribution of terms, Existential Import Boolean interpretation of categorical propositions.  
Immediate inference. Immediate inference based on the square of opposition, conversion, obversion and contraposition.
- C. Categorical syllogism: Figure, mood, rules for validity, Venn Diagram method of testing validity, fallacies.

**Unit-II**

- A. Symbolic Logic: Use of symbols  
Truth-functions: Negation, Conjunction, disjunction, implication, equivalence.
- B. Tautology, Contradiction, Contingent statement forms.  
Construction of truth-table, using truth-tables for testing the validity of arguments and statement forms.
- C. Mill's methods of experimental inquiry.

**Half-II**

**(50 marks)**

**Psychology**

**Unit-III**

- A. Sensation: What is sensation? Attributes of sensation.  
Perception: What is perception? Relation between sensation and perception, Gestalt theory of perception, illusion and hallucination.
- B. Consciousness: Conscious, Subconscious, Unconscious, Evidence for the existence of the Unconscious, Freud's theory of dream.

## **Unit-IV**

- A. Memory: Factors of memory, Laws of association, Forgetfulness.  
Learning: The Trial and Error theory, Pavlov's Conditioned-Response theory, Gestalt theory.
- B. Intelligence: Measurement of Intelligence, I.Q., Test of Intelligence, Binnet-Simon test.

### **Suggested Readings:**

- Introduction to Logic (13<sup>th</sup> Edn.): I.M. Copi & C. Cohen
- Paschatya Darshan O Yuktivijnan: Ramaprasad Das
- Paschatya Darshan O Yuktivijnan: Samir Kumar Chakraborty
- A Textbook of Psychology: Pareshnath Bhattacharya
- Introduction to Psychology: G.T. Morgan
- A Modern Introduction to Psychology: Rex Knight & M. Knight
- Monovidya: Priti Bhushan Chattopadhyay
- Monovidya: Pareshnath Bhattacharya
- Monovidya: Ira Sengupta
- Monovidya: Samarendra Bhattacharya

## **PAPER—III**

### **(ETHICS AND PHILOSOPHY OF RELIGION)**

100 marks

#### **Half-I**

**(50 marks)**

#### **Ethics (Indian and Western)**

#### **Unit-I**

#### **Ethics (Indian)**

- A. Four Puruṣārthas- Dharma, artha, kāma and mokṣa and their interrelation  
Karma (Sakāma & Niṣkāma)  
Cārvāka Ethics
- B. Buddhist Ethics: The Four Noble Truths and the Eight-fold Path

#### **Unit-II**

# কলিকাতা বিশ্ববিদ্যালয়

পাঠক্রমের পুনর্বিন্যাস

২০১০

বাংলা (সাম্মানিক ও সাধারণ) পার্ট-ওয়ান, পার্ট-টু এবং  
পার্ট-থ্রি-র জন্য পাঠ্যসূচি

- ১। প্রকাশিত বর্তমান পাঠ্যসূচিতে যেভাবে নম্বর ভাগ করা হয়েছে তা অনুসরণ করতে হবে।
- ২। পাঠ্যতালিকা বহির্ভূত প্রশ্ন কোনোভাবেই করা চলবে না। এ বিষয়ে সতর্কতা বিশেষভাবে কাম্য।
- ৩। প্রত্যেক পত্রে বড় বা রচনাধর্মী প্রশ্ন নানা মানের থাকবে এবং প্রয়োজনে দুটি, তিনটি বা চারটি অন্তর্বিভাগ থাকতে পারে।
- ৪। প্রত্যেক পত্রে বিষয় অনুযায়ী ৪ ও ৫ নম্বর মানের ছোট প্রশ্ন থাকবে। এক্ষেত্রে প্রধানত প্রশ্নের উৎস ও প্রশ্ন উল্লেখসহ তাৎপর্যধর্মী উত্তর অভিপ্রেত।
- ৫। পাঠ্য রচনা থেকে উদ্ধৃতিসহ প্রশ্ন যেমন থাকবে তেমন তুলনামূলক, আলোচনাধর্মী প্রশ্নও রাখা বাঞ্ছনীয়। উদ্ধৃতি অবশ্যই বিশ্ববিদ্যালয় নির্ধারিত পাঠ্যগ্রন্থ থেকে গ্রহণীয়।
- ৬। টীকা অথবা ব্যাখ্যামূলক চার নম্বরের ছোট প্রশ্নের জন্য কমবেশি ৭৫ শব্দ ও পাঁচ নম্বরের ছোট প্রশ্নের জন্য কমবেশি ১০০ শব্দ, দশ নম্বরের মাঝারি প্রশ্নের জন্য ২০০ শব্দ, পনেরো বা ষোল নম্বরের বড়ো প্রশ্নের জন্য ৩০০ শব্দ, এবং কুড়ি নম্বরের প্রশ্নের জন্য ৩৫০ শব্দের আয়তন আদর্শ বিবেচিত হতে পারে।

বাংলা (সাম্মানিক)

পার্ট-১

প্রথম পত্র-১০০

ক। বাংলা সাহিত্যের ইতিহাস

মোট নম্বর ৭৫

মডিউল-১ : প্রাচীন ও মধ্যযুগ :

২৫ (১৫ + ৫ + ৫)

ভূমিকা : আর্থ-সামাজিক ও রাজনৈতিক পটভূমিকায় বাংলার জাতি, ভাষা, সাহিত্য ও সংস্কৃতির সংক্ষিপ্ত পরিচয়।

চর্যাপদ [দেশ-কাল-সমাজ-ভাষা-সাহিত্য-সংস্কৃতির চিত্র]

তুর্কি আক্রমণ ও তার প্রতিক্রিয়া [সমাজ ও সাহিত্যে]

বড়ু চণ্ডীদাস ও শ্রীকৃষ্ণকীর্তন

অনুবাদ সাহিত্য : ভাগবত, রামায়ণ ও মহাভারত।

চৈতন্যজীবন ও জীবনী সাহিত্য : চৈতন্য জীবনকথা, সাহিত্য ও সমাজে চৈতন্য প্রভাব, জীবনী সাহিত্য। বিশেষ গুরুত্বসহ পাঠ: বৃন্দাবন দাস, কৃষ্ণদাস কবিরাজ।

মঙ্গলকাব্যের উদ্ভব ও বিবর্তন : সংজ্ঞা, বৈশিষ্ট্য, সমাজ : মনসামঙ্গল চণ্ডীমঙ্গল ধর্মমঙ্গল শিবায়ন ও অন্নদামঙ্গল। বিশেষ গুরুত্বসহ পাঠ: বিজয়গুপ্ত, কেতকাদাস ফেমানন্দ, দ্বিজ মাধব, ঘনরাম চক্রবর্তী, রামেশ্বর ভট্টাচার্য, রায়গুণাকর ভারতচন্দ্র।

প্রণয়োপাখ্যান : শাহ মুহম্মদ সগীর, দৌলত কাজী, আলাওল।

আধুনিক যুগ : [১৯৬০ পর্যন্ত]

২৫ + ২৫

মডিউল-২ : আধুনিক যুগের গদ্য ও প্রবন্ধ, সাময়িক পত্র, কাব্য ও কবিতা

২৫ (১৫ + ৫ + ৫)

উনিশ-বিশ শতকের আর্থ-সামাজিক পটভূমি।

গদ্য ও প্রবন্ধ : বাংলা গদ্যভাষা ও সাহিত্যের বিকাশে শ্রীরামপুর মিশন ও ফোর্ট উইলিয়াম কলেজের ভূমিকা, রাজা রামমোহন রায়, ঈশ্বরচন্দ্র বিদ্যাসাগর, অক্ষয়কুমার দত্ত, প্যারীচাঁদ মিত্র, কালীপ্রসন্ন সিংহ, বঙ্কিমচন্দ্র চট্টোপাধ্যায়, মীর মসাররফ হোসেন, রবীন্দ্রনাথ ঠাকুর, স্বামী বিবেকানন্দ, রামেন্দ্রসুন্দর ত্রিবেদী, অবনীন্দ্রনাথ ঠাকুর, প্রমথ চৌধুরী, গোপাল হালদার, বুদ্ধদেব বসু-র অবদান।

সাময়িক পত্র : আবির্ভাব, পরিচিতি, অবদান, দিগ্‌দর্শন থেকে কৃষ্টিবাস। বিশেষ অভিনিবেশ সহ পাঠ : সমাচার দর্পণ, সংবাদ প্রভাকর, তত্ত্ববোধিনী পত্রিকা, বঙ্গদর্শন, ভারতী, সবুজপত্র, কল্লোল, শনিবারের চিঠি, পরিচয়, কৃষ্টিবাস।

কাব্য ও কবিতা : ঈশ্বরচন্দ্র গুপ্ত, রঙ্গলাল বন্দ্যোপাধ্যায়, মধুসূদন দত্ত, হেমচন্দ্র বন্দ্যোপাধ্যায়, নবীনচন্দ্র সেন, বিহারীলাল চক্রবর্তী, রবীন্দ্রনাথ ঠাকুর, সত্যেন্দ্রনাথ দত্ত, যতীন্দ্রনাথ সেনগুপ্ত, মোহিতলাল মজুমদার, নজরুল ইসলাম, জসীমউদ্দীন, জীবনানন্দ দাশ, সুধীন্দ্রনাথ দত্ত, প্রেমেন্দ্র মিত্র, অমিয় চক্রবর্তী, বিষ্ণু দে, সমর সেন, সুভাষ মুখোপাধ্যায়, অরুণ মিত্র, বীরেন্দ্র চট্টোপাধ্যায়, সুকান্ত ভট্টাচার্য, নীরেন্দ্রনাথ চক্রবর্তী।

মডিউল-৩ : আধুনিক যুগের নাটক-প্রহসন, উপন্যাস ও ছোটগল্প

২৫ (১৫ + ৫ + ৫)

নাটক-প্রহসন : সূচনা, বাংলা নাটকের উদ্ভব ও বিকাশ, রামনারায়ণ তর্করত্ন, মধুসূদন দত্ত, দীনবন্ধু মিত্র, গিরিশচন্দ্র ঘোষ, দ্বিজেন্দ্রলাল রায়, রবীন্দ্রনাথ ঠাকুর, বিজয় ভট্টাচার্য, তুলসী লাহিড়ী, শম্ভু রায়, দিগেন্দ্রচন্দ্র বন্দ্যোপাধ্যায়, উৎপল দত্ত।

উপন্যাস ও ছোটগল্প : উদ্ভব, বঙ্কিমচন্দ্র চট্টোপাধ্যায়, রবীন্দ্রনাথ ঠাকুর, প্রভাতকুমার মুখোপাধ্যায়, শরৎচন্দ্র চট্টোপাধ্যায়, বিভূতিভূষণ বন্দ্যোপাধ্যায়, তারাশঙ্কর বন্দ্যোপাধ্যায়, জগদীশ গুপ্ত, মানিক বন্দ্যোপাধ্যায়, পরশুরাম, প্রেমেন্দ্র মিত্র, সতীনাথ ভাদুড়ী, আশাপূর্ণা দেবী, সুবোধ ঘোষ, সোমেন চন্দ, সৈয়দ ওয়ালিউল্লাহ, সমরেশ বসু।

মডিউল-৪ : বাংলা ভাষার ইতিহাস

২৫ (১৫ + ১০)

নিম্নলিখিত বিষয় সমূহ :

- ১। প্রাচীন ভারতীয় আর্য ভাষা থেকে আধুনিক ভারতীয় আর্য ভাষার বিবর্তন।
- ২। বাংলা ভাষার উদ্ভব এবং প্রাচীন বাংলা, আদি-মধ্য ও অন্ত-মধ্য বাংলা ভাষার ভাষাতাত্ত্বিক লক্ষণ।
- ৩। ভাষা-উপভাষা, ভাষা-উপভাষার সম্পর্ক—কয়েকটি বাংলা উপভাষার বৈশিষ্ট্য।
- ৪। উচ্চারণ স্থান ও উচ্চারণ প্রকৃতি অনুযায়ী বাংলা স্বর ও ব্যঞ্জন ধ্বনিগুলির পরিচয়।
- ৫। বাংলা ভাষার ধ্বনি পরিবর্তনের রীতি ও প্রকৃতি।
- ৬। বাংলা ভাষার শব্দ ভাণ্ডার।
- ৭। শব্দ-বিবর্তন।

## দ্বিতীয় পত্র-১০০

মডিউল-১ : ছন্দ

২০ (১০ + ৫ + ৫)

দল/অক্ষর। কলা/মাত্রা। যতি, যতিলোপ। পর্ব। পঙক্তি/চরণ। ছত্র। পদ। বাংলা ছন্দের ত্রিধারা—মিশ্রবৃত্ত/তান প্রধান/ অক্ষরবৃত্ত; সরল কলাবৃত্ত/ কলাবৃত্ত/ ধ্বনি প্রধান/মাত্রাবৃত্ত; দলবৃত্ত/স্বাসাঘাত প্রধান/বলবৃত্ত/স্বরবৃত্ত/ছড়ার ছন্দ/লৌকিক ছন্দ।

(ছন্দোলিপি প্রণয়নে পর্ব, পদ, পংক্তি, লয়, রীতি ও মাত্রার উল্লেখ বাঞ্ছনীয়)। বাংলা ছন্দের কয়েকটি রূপবন্ধের পরিচয় ও উদাহরণ সহ আলোচনা (পয়ার, সনেট, অমিত্রাক্ষর, মুক্তক, গদ্যছন্দ)।

মডিউল-২: অলংকার

২৫ (১৫ + ৫ + ৫)

শব্দালঙ্কার : অনুপ্রাস, স্লেষ, যমক, বক্রোক্তি। অর্থালঙ্কার : উপমা, রূপক, সমাসোক্তি, উৎপ্রেক্ষা, অপহৃতি, দৃষ্টান্ত, ব্যতিরেক, বিরোধ, অর্থাভ্রন্যাস, ব্যাঞ্জক্ৰতি, (সংজ্ঞা, উদাহরণ, অলংকার নির্ণয়)।

মডিউল-৩: প্রফ রিডিং

৫

(দৃষ্টিহীন পরীক্ষার্থীদের জন্য বিকল্পে অণ্ডজি সংশোধন পাঠ্য)

মডিউল-৪: বৈষ্ণব পদাবলী : (ক.বি. সংস্করণ)

১৬ (১২ + ৪)

নিম্নলিখিত পদসমূহ :

১) নীরদনয়নে নীর ঘন সিঞ্জে ২) আজু হাম কি পেখলু নবদ্বীপ চন্দ ৩) দাঁড়াইয়া নন্দের আগে গোপাল কান্দে অনুরাগে ৪) ঘরের বাহিরে দণ্ডে শতবার ৫) রূপলাগি আঁখি ঝুরে গুণে মন ভোর ৬) এমন পিরীতি কভু নাহি দেখি শুনি ৭) সখি কি পুছসি অনুভব মোয় ৮) কণ্টক গাড়ি কমল-সম পদতল ৯) মন্দির বাহির কঠিন কপাট ১০) কি মোহিনী জান বঁধু কি মোহিনী জান ১১) বঁধু তুমি যে আমার প্রাণ ১২) এ সখি হামারি দুখের নাহি ওর ১৩) অক্ষুর তপন তাপে যদি জারব ১৪) বছদিন পরে বঁধুরা এলে ১৫) তাতল সৈকত বারি-বিন্দুসম।

মডিউল-৫: শাক্ত পদাবলী : (ক.বি. সংস্করণ)

১৬ (১২ + ৪)

নিম্নলিখিত পদসমূহ :

- বাল্যলীলা : ১) গিরিবর, আর আমি পারি নে হে, প্রবোধ দিতে উমারে (২)
- আগমনী : ২) গিরি, এবার আমার উমা এলে (৭)
- ৩) কবে যাবে বল গিরিরাজ (১৮)
- ৪) বারে বারে কহ রাণি, গৌরী আনিবারে (২৯)
- ৫) ওহে হর গঙ্গাধর, কর অসীকার (৩৬)
- ৬) গিরিরাণি, এই নাও তোমার উমারে (৩৮)
- বিজয়া : ৭) ওরে নবমী নিশি, না হইওরে (৮৭)
- ৮) ওহে প্রাণনাথ গিরিবর হে (৯৭)
- ভক্তের আকৃতি : ৯) কেবল আসার আশা, ভবে আসা (১৫৭)
- ১০) মাগো তারা ও শঙ্করি (১৬৩)
- ১১) মা আমায় ঘুরাবে কত (১৬৫)
- ১২) আমি কি দুখেরে ভরই? (১৮১)
- ১৩) আমার দেও মা তবিলদারী (২০১)
- ১৪) এমন দিন কি হবে তারা (২১৩)
- ১৫) যশোদা নাচাতো গো মা বলে নীলমণি (২২১)

মডিউল-৬: মুকুন্দ চক্রবর্তী - চণ্ডীমঙ্গল ১ম খণ্ড : (ক.বি. সংস্করণ)

১৮ (১৪ + ৪)

পার্ট-২

তৃতীয় পত্র-১০০

মডিউল-১ : কথা সাহিত্যের রূপভেদ : রোমান্স, উপন্যাস : ঐতিহাসিক, সামাজিক, রাজনৈতিক, আঞ্চলিক, মনস্তাত্ত্বিক ও চেতনাপ্রবাহরীতি এবং ছোটগল্প। ১৪/ (৭ + ৭)

মডিউল-২: চন্দ্রশেখর - বঙ্কিমচন্দ্র চট্টোপাধ্যায় ১৮ (১৪ + ৪)

মডিউল-৩: শ্রীকান্ত (১ম পর্ব) - শরৎচন্দ্র চট্টোপাধ্যায় ১৮ (১৪ + ৪)

মডিউল-৪: শেখের কবিতা - রবীন্দ্রনাথ ঠাকুর ২৫ (১৫ + ৫ + ৫)

মডিউল-৫: হাঁসুলী বাঁকের উপকথা - তারাশঙ্কর বন্দ্যোপাধ্যায় ২৫ (১৫ + ৫ + ৫)



চতুর্থ পত্র-১০০

মডিউল-১: নাটকের রূপভেদ :

১৫/ (৭-১ + ৭-১)

ট্রাজেডি, কমেডি, প্রহসন, মেলোড্রামা, রূপক, সাংকেতিক, পৌরাণিক, ঐতিহাসিক, সামাজিক, অ্যাবসার্ড, একাক্ষ, থার্ড থিয়েটার।

১৬

মডিউল-২: বঙ্গরঙ্গমঞ্চের ইতিহাস : সূচনা থেকে নাট্য নিয়ন্ত্রণ বিল (১৮৭৬, মার্চ) পর্যন্ত।

১৫/ (৭-১ + ৭-১)

নিম্নলিখিত বিষয়সমূহ :

লেবেডফ ও বেঙ্গলি থিয়েটার, নবীনচন্দ্র বসুর শ্যামবাজার থিয়েটার, বেলগাছিয়া নাট্যশালা, জোড়াসাঁকো নাট্যশালা, বাগবাজার অ্যামেচার থিয়েটার (শ্যামবাজার নাট্যসমাজ), ন্যাশনাল থিয়েটার (প্রতিষ্ঠা, তাৎপর্য-প্রথম ও দ্বিতীয় পর্ব), নাট্য নিয়ন্ত্রণ বিল।

মডিউল-৩: একেই কি বলে সম্ভ্রতা? ও বৃড় সালিকের ঘাড়ে রৌ - মধুসূদন দত্ত  
(দুটি থেকেই উত্তর লিখতে হবে)।

২০ (১০ + ১০)

মডিউল-৪: মুক্তধারা - রবীন্দ্রনাথ ঠাকুর

২৫ (১৫+৫+৫)

মডিউল-৫: টিনের তলোয়ার - উৎপল দত্ত

২৫ (১৫+৫+৫)

পার্ট-৩

পঞ্চম পত্র-১০০

মডিউল-১: কাব্যের রূপভেদ : আখ্যানকাব্য-গাথাকাব্য, মহাকাব্য, গীতিকাব্য, পত্রকাব্য ও সনেট।

১৮/ (৯+৯)

মডিউল-২: বীরঙ্গনা - মধুসূদন দত্ত

১৬ (১২+৪)

নিম্নলিখিত পত্রসমূহ :

দুগ্ধস্তের প্রতি শকুন্তলা, সোমের প্রতি তারা, দশরথের প্রতি কেকয়ী, লক্ষ্মণের প্রতি শূর্পণখা, নীলধ্বজের প্রতি জনা।

মডিউল-৩: সোনার তরী - রবীন্দ্রনাথ ঠাকুর

১৬ (১২+৪)

নিম্নলিখিত কবিতাসমূহ :

সোনার তরী, বৈষ্ণব কবিতা, যেতে নাহি দিব, বসুন্ধরা, নিরুদ্দেশ যাত্রা।

মডিউল-৪: সঞ্চিতা - নজরুল ইসলাম

১৬ (১২+৪)

নিম্নলিখিত কবিতাসমূহ :

বিদ্রোহী, অভিশাপ, আমার কৈফিয়ৎ, দারিদ্র্য, নারী।

মডিউল-৫: একালের কবিতা সংকলন (ক.বি. সংস্করণ)

১৮ (১৪+৪)

নিম্নলিখিত কবিতাসমূহ :

- ১) সূচেতনা - জীবনানন্দ দাশ
- ২) রবীন্দ্রনাথের প্রতি - বুদ্ধদেব বসু
- ৩) প্রচ্ছন্ন স্বদেশ - বিষ্ণু দে
- ৪) বধু - সুভাষ মুখোপাধ্যায়
- ৫) বোধন - সুকান্ত ভট্টাচার্য
- ৬) বাবরের প্রার্থনা - শঙ্খ ঘোষ
- ৭) যেতে পারি কিন্তু কেন যাব? - শক্তি চট্টোপাধ্যায়

- ৮) আমার নাম ভারতবর্ষ - অমিতাভ দাশগুপ্ত  
 ৯) মালতীবালা বালিকা বিদ্যালয় - জয় গোদামী  
 ১০) নিভে যাওয়া দীপগুলি আজ জ্বালিয়ে যাব - মহাদেবী বর্মা (প্রতিবেশী কবিতা)

মডিউল-৬: কাব্যশৈলী বিষয়ে প্রাথমিক আলোচনা করে পাঠ্য কবিতার শৈলী বিচার :

১৬

[কবিতার শৈলীবিচার প্রসঙ্গটি যতো না বিবয়গত, তার চেয়ে অনেক বেশি আঙ্গিকগত বিশ্লেষণ প্রত্যাশা করে। যদিও শেষ বিচারে আঙ্গিক বা ফর্মের বিশ্লেষণ কবিতাকে বুঝতেই, কাব্যসৌন্দর্য নির্ণয় করতেই—তা বলা বাহুল্য।

শৈলী বিচারের ক্ষেত্রে কয়েকটি কথা স্মরণে রাখা উচিত :

- ১। কবিতার বাক্য ও শব্দের বিন্যাসের চমকপ্রদ সৌন্দর্য, তার শৈল্পিক সুবমা ও শব্দকে আশ্রয় করে শব্দাতীত ব্যঞ্জনার ব্যবহার।
- ২। চিত্রকল্প বা বাক্যপ্রতিমার ব্যবহার নৈপুণ্য।
- ৩। শব্দপ্রয়োগের বৈশিষ্ট্য : যা কবির বিশেষ শব্দ-প্রীতির স্বাক্ষর হয়ে ওঠে; রস-পরিণাম লাভ করে।
- ৪। শব্দের ধ্বনিগত মাধুর্য, শব্দার্থের অভিনব ব্যবহারে কবির মৌলিকতা। শব্দ ও ধ্বনির পারস্পরিক নির্ভরতা।
- ৫। ছন্দ ও অলংকার ব্যবহার, স্তবক ও পংক্তি নির্মাণের সচেতন আভিপ্রায়িক প্রয়োগ, যতিচিহ্ন এমন কি দুটি শব্দ অথবা দুটি পংক্তির মধ্যে জমিয়ে রাখা শূন্যস্থানের পরিকল্পিত ব্যবহার—ইত্যাদি।

### ষষ্ঠ পত্র-১০০

- মডিউল-১ : পুতুল নাচের ইতিকথা - মানিক বন্দ্যোপাধ্যায় ১৮ (১৪ + ৪)  
 মডিউল-২ : অরণ্যের অধিকার - মহাশ্বেতা দেবী ১৬ (১২ + ৪)  
 ছোটগল্প :  
 মডিউল-৩ : ১) রবীন্দ্রনাথ ঠাকুরের ছোটগল্প : ১৬ (১২ + ৪)  
 নিশীথে, একরাত্রি, সুভা, পয়লা নদ্বর, ক্ষুধিত পাষণ ও ল্যাবরেটরী।  
 মডিউল-৪ : ২) স্বাধীনতা-পূর্ববর্তী বাংলা ছোটগল্প : ২৫ (১৫ + ৫ + ৫)  
 অ) পয়ামুখম্ : জগদীশ গুপ্ত, মেঘমল্লার : বিভূতিভূষণ বন্দ্যোপাধ্যায়, চুয়াচন্দন : শরদিন্দু বন্দ্যোপাধ্যায়, মহানগর : প্রেমেন্দ্র মিত্র, চরণ দাস এম. এল.এ : সতীনাথ ভাদুড়ী, ফসিল : সুবোধ ঘোষ, টোপ : নারায়ণ গঙ্গোপাধ্যায়।  
 মডিউল-৫ : ৩) স্বাধীনতা-পরবর্তী বাংলা ছোটগল্প ২৫ (১৫ + ৫ + ৫)  
 আ) মতিলাল পাত্রী : কমলকুমার মজুমদার, অস্ত্রসলিলা : সাবিত্রী রায়, আদাব : সমরেশ বসু, অশ্বমেধের ঘোড়া : দীপেন্দ্রনাথ বন্দ্যোপাধ্যায়, এখন প্রেম : তপোবিজয় ঘোষ, স্টীলের চঞ্চু : সাধন চট্টোপাধ্যায়, দাহ : ফণীশ্বরনাথ রেণু (প্রতিবেশী গল্প)।  
 [মডিউল-৪ ও ৫-এর ক্ষেত্রে একালের গল্প সংকলন ১ম ও ২য় খণ্ড (ক.বি. সংস্করণ) পাঠ্য]

### সপ্তম পত্র-১০০

- মডিউল-১ : প্রবন্ধ-নিবন্ধের রূপভেদ : ১৮/ (৯+৯)  
 প্রবন্ধ, রম্যরচনা, পত্রসাহিত্য, ডায়ারি, ভ্রমণ সাহিত্য, সমালোচনা সাহিত্য।  
 মডিউল-২ : কমলাকান্তের দপ্তর - বঙ্কিমচন্দ্র চট্টোপাধ্যায় ১৬ (১২+৪)  
 নিম্নলিখিত রচনাসমূহ :  
 (একা—কে গায় ওই, আমার মন, পতঙ্গ, বিড়াল)

নিম্নলিখিত পত্রসমূহ :

- পত্র সংখ্যা - ১০ (শিলাইদহের অপর পারে.....)  
 ১৮ (এ যে মস্ত পৃথিবীটা চূপ করে.....)  
 ৩০ (আমাদের ঘাটে একটি নৌকা.....)  
 ৬৪ (রোজ সকালে চোখ চেয়েই.....)  
 ৬৭ (এখন একলাটি আমার সেই.....)  
 ৭৭ (স্রমণের গোলমালের মধ্যে.....)  
 ৮১ (ইতিমধ্যে দেখছি খুব.....)  
 ১০২ (এদিকে গরমটাও বেশ পড়েছে.....)  
 ১০৬ (কাল থেকে হঠাৎ আমার.....)  
 ১০৮ (সন্ধ্যাবেলায় পাবনা শহরে.....)

মডিউল-৪: একালের প্রবন্ধ সঞ্চয়ন (ক.বি. নবতম সংস্করণ)

১৫

নিম্নলিখিত প্রবন্ধসমূহ :

- ১) পটুয়া শিল্প - যামিনী রায়  
 ২) শিক্ষা ও বিজ্ঞান - সত্যেন্দ্রনাথ বসু  
 ৩) যে দেশে বহু ধর্ম বহু ভাষা - অন্নদাশঙ্কর রায়  
 ৪) সাহিত্যের রাজনীতি - সরোজ আচার্য

মডিউল-৫: একালের সমালোচনা সঞ্চয়ন (ক.বি. সংস্করণ)

১৫

নিম্নলিখিত রচনাসমূহ :

- ১) আধুনিক সাহিত্য - গোপাল হালদার  
 ২) রবীন্দ্রনাথ ও উত্তরসাধক - বুদ্ধদেব বসু  
 ৩) তিন দশকের নাট্যসমীক্ষা - দ্বিপ্রচন্দ্র বন্দ্যোপাধ্যায়  
 ৪) রূপকথা - শ্রীকুমার বন্দ্যোপাধ্যায়

মডিউল-৬: বাংলা সাহিত্য বিষয়ে একটি প্রবন্ধ রচনা

২০

অষ্টম পত্র-১০০

মডিউল-১ : সংস্কৃত সাহিত্যের ইতিহাস :

২৫ (১৫ + ৫ + ৫)

(কালিদাস - কবি ও নাট্যকার, ভবভূতি, বাণভট্ট, শূদ্রক, জয়দেব)।

মডিউল-২ : ইংরেজি সাহিত্যের ইতিহাস :

২৫ (১৫ + ৫ + ৫)

(শেকসপিয়ার - কবি ও নাট্যকার, মিলটন, ওয়ার্ডসওয়ার্থ, শেলি, কীটস, এলিয়ট, স্কট, চার্লস ডিকেন্স, বার্নার্ড শ'।

মডিউল-৩ : প্রতিক্রমী সাহিত্যের ইতিহাস : হিন্দী (পঠন-পাঠন হবে বাংলায়)

১৮ (১৪ + ৪)

[পাঁচ জন লেখক : ভারতেন্দু হরিশচন্দ্র, প্রেমচাঁদ, মহাদেবী বর্মা, নিরলা, ফনীন্দ্রনাথ রেণু]

মডিউল-৪ : কাব্য জিজ্ঞাসা - অতুলচন্দ্র গুপ্ত

১৬/ (৮ + ৮)

(ধ্বনি ও রস)

মডিউল-৫ : সাহিত্য - রবীন্দ্রনাথ ঠাকুর

১৬/ (৮ + ৮)

(সাহিত্যের তাৎপর্য, সাহিত্যের বিচারক, সৌন্দর্যবোধ)।

## বাংলা (সাধারণ)

### পার্ট - ১

প্রথম পত্র - ১০০

#### ক) বাংলা সাহিত্যের ইতিহাস : আধুনিক যুগ

মডিউল : ১	১. গদ্যরীতি ও প্রবন্ধ : শ্রীরামপুর মিশন, ফোর্ট উইলিয়াম কলেজ, রামমোহন রায়, ঈশ্বরচন্দ্র বিদ্যাসাগর, অক্ষয়কুমার দত্ত, প্যারীচাঁদ মিত্র, কালীপ্রসন্ন সিংহ, বঙ্কিমচন্দ্র চট্টোপাধ্যায়, রবীন্দ্রনাথ ঠাকুর।	১৫
মডিউল : ২	২. কাব্য কবিতা : ঈশ্বরচন্দ্র গুপ্ত, রঙ্গলাল বন্দ্যোপাধ্যায়, মধুসূদন দত্ত, হেমচন্দ্র বন্দ্যোপাধ্যায়, নবীনচন্দ্র সেন, বিহারীলাল চক্রবর্তী, রবীন্দ্রনাথ ঠাকুর।	১৫
মডিউল : ৩	৩. নাটক : মধুসূদন দত্ত, দীনবন্ধু মিত্র, গিরিশচন্দ্র ঘোষ, রবীন্দ্রনাথ ঠাকুর, দ্বিজেন্দ্রলাল রায়, বিজন ভট্টাচার্য।	১৫
মডিউল : ৪	৪. সাময়িক পত্র : দিগদর্শন থেকে বঙ্গদর্শন। (সংক্ষিপ্ত টীকা)	৫
মডিউল : ৫	৫. উপন্যাস ও ছোটগল্প : প্যারীচাঁদ মিত্র, বঙ্কিমচন্দ্র চট্টোপাধ্যায়, রবীন্দ্রনাথ ঠাকুর, শরৎচন্দ্র চট্টোপাধ্যায়, বিভূতিভূষণ বন্দ্যোপাধ্যায়, তারাশঙ্কর বন্দ্যোপাধ্যায়, মানিক বন্দ্যোপাধ্যায়।	১৫ + ৫
মডিউল : ৬	৬. অলঙ্কার : অনুপ্রাস, যমক, শ্লেষ, বক্রোক্তি, উপমা, রূপক, উৎপ্রেক্ষা, সমাসোক্তি, ব্যাজস্ততি, ব্যতিরেক — সংজ্ঞা ও উদাহরণ।	৫ × ২ = ১০
মডিউল : ৭	৭. সাহিত্যের রূপভেদ : গীতিকবিতা, মহাকাব্য, ট্রাজেডি, কমেডি, পৌরাণিক-ঐতিহাসিক-সামাজিক নাটক। রোমাণ, সামাজিক-ঐতিহাসিক-পারিবারিক উপন্যাস, ছোটগল্পের সংজ্ঞা, ছোটগল্পের সঙ্গে উপন্যাসের তুলনা, প্রবন্ধ ও রম্যরচনা।	১০ + ১০ = ২০

### পার্ট - ২

দ্বিতীয় পত্র - ১০০

মডিউল : ১	১) বৈষ্ণব পদাবলী (ক.বি. সংস্করণ) নিম্নলিখিত পদসমূহ (প্রথম পংক্তি)	১৫ + ৫ + ৫ = ২৫
	(১) নীরদনয়নে নীর ঘন সিঞ্চনে (২) আজু হাম কি পেখলু নবদ্বীপ চন্দ (৩) দাঁড়াইয়া নদের আগে গোপাল কান্দে অনুরাগে (৪) ঘরের বাহিরে দণ্ডে শতবার (৫) রূপলাগি আঁখি ঝুরে গুণে মন ভোর (৬) এমন পিরীতি কতু নাহি দেখি শুনি (৭) সখি কি পুছসি অনুভব মোয় (৮) কণ্টক গাড়ি কমল-সম পদতল (৯) মন্দির বাহির কঠিন কপাট (১০) কি মোহিনী জান বঁধু কি মোহিনী জান (১১) এ সখি হামারি দুখের নাহি ওর (১২) অধুর তপন তাপে যদি জারব (১৩) বর্ষদিন পরে বঁধুয়া এলে।	
মডিউল : ২	২) মেঘনাদবধ কাব্য (প্রথম সর্গ ও চতুর্থ সর্গ) - মধুসূদন দত্ত	১৫ + ৫ + ৫ = ২৫
মডিউল : ৩	৩) পুনশ্চ - রবীন্দ্রনাথ ঠাকুর নিম্নলিখিত কবিতাসমূহ : ছেলেটা, সাধারণ মেয়ে, বাঁশি, প্রথম পূজা।	১৫
মডিউল : ৪	৪) একালের কবিতা সংকলন (ক.বি. সংস্করণ) নিম্নলিখিত কবিতাসমূহ : নষ্টনীড় (সমর সেন), আমার ভারতবর্ষ (বীরেন্দ্র চট্টোপাধ্যায়), দেশ দেখাচ্ছ অন্ধকারে (নীরেন্দ্রনাথ চক্রবর্তী), কেউ কথা রাখেনি (সুনীল গঙ্গোপাধ্যায়)।	১৫
মডিউল : ৫	৫) ছন্দ ১. অক্ষর, দল, কলা, মাত্রা যতি, পর্ব, পদ, পংক্তি, চরণ — সংজ্ঞা ও উদাহরণ সহ প্রতিটির বিস্তারিত আলোচনা। ২. বাংলা ছন্দের ত্রিধারা : উদাহরণ। ৩. ছন্দোল্লিপি (পর্ব, পদ, পংক্তি, লয়, রীতি, মাত্রার উল্লেখ বাঞ্ছনীয়)	১২ + ৮ = ২০

তৃতীয় পত্র - ১০০

মডিউল : ১	১) সংকলন - রবীন্দ্রনাথ ঠাকুর পাঠ্য প্রবন্ধ সমূহ : শিক্ষার মিলন, পূর্ব ও পশ্চিম, মেঘদূত, কেকাধ্বনি।	১৫
মডিউল : ২	২) রাজা ও রাণী - রবীন্দ্রনাথ ঠাকুর	১৫
মডিউল : ৩	৩) একালের ছোটগল্প সংকলন (ক.বি. সংস্করণ) নিম্নলিখিত গল্পসমূহ : পুই মাচা (বিভূতিভূষণ বন্দ্যোপাধ্যায়), না (তারানাথ বন্দ্যোপাধ্যায়), হারানের নাটজামাই (মানিক বন্দ্যোপাধ্যায়), চড়াই-উৎরাই (নরেন্দ্রনাথ মিত্র)।	১৫ + ৫ = ২০
মডিউল : ৪	৪) কপালকুণ্ডলা - বঙ্কিমচন্দ্র চট্টোপাধ্যায়	১৫ + ৫ + ৫ = ২৫
মডিউল : ৫	৫) পরীসমাজ - শরৎচন্দ্র চট্টোপাধ্যায়	১৫ + ৫ + ৫ = ২৫

বাংলা সাধারণ পাঠক্রম : পার্ট - ৩

চতুর্থ পত্র - ১০০

মডিউল : ১	১) পরিভাষা (সাহিত্য-সৌন্দর্যতত্ত্ব বিষয়ক নির্দিষ্ট ২০০ টি পরিভাষা) (প্রচলিত পাঠক্রম অনুযায়ী)	১ x ১০ = ১০
মডিউল : ২	২) গ্রন্থ সংশোধন	১০
মডিউল : ৩	৩) সাহিত্য অথবা সমাজ বিষয়ক প্রবন্ধ রচনা (অনধিক ৩০০ শব্দে)	১৫
মডিউল : ৪	৪) ইংরেজি থেকে বাংলায় অনুবাদ	১৫
মডিউল : ৫	৫) ভাষাতত্ত্ব : ক) উদাহরণ সহ সংজ্ঞা লিখন — আদি-মধ্য-অন্ত্য স্বরাগম; আদি-মধ্য-অন্ত্য ব্যঞ্জনগম; স্বরলোপ; সমাক্ষর লোপ; মূর্ধন্যীভবন; সকারী ভবন; রকারী ভবন; বিপর্যাস; সাদৃশ্য; বিমিশ্রণ/মিশ্রণ; জোড় কলম শব্দ; সংকর শব্দ; লোকনিরুক্তি; সুভাষণ; অপভ্রাংশ। খ) শব্দবৈত	২ x ৫ = ১০
মডিউল : ৬	৬) আন্তর্জাতিক ধ্বনিমূলক বর্ণমালা-র (IPA) চিহ্ন ব্যবহার করে লিপ্যন্তরকরণ (Phonetic Transcription)	১০
মডিউল : ৭	৭) সাক্ষাৎকার/রিপোর্টাজ লিখন	১৫
মডিউল : ৮	৮) বিজ্ঞাপন/প্রাতিষ্ঠানিক পত্রলিখন	১৫

# ত্রি-বার্ষিক স্নাতক পর্যায়ে পাঠ্যসূচি

## আধুনিক ভারতীয় ভাষা

বাংলা

পূর্ণমান - ৫০

### ক। ভাষা

মডিউল : ১ ১. বোধ পরীক্ষণ ১৫

নিম্নলিখিত প্রবন্ধসমূহ পাঠ্য :

- i) বঙ্গদেশের কৃষক — বঙ্কিমচন্দ্র চট্টোপাধ্যায়
- ii) স্বদেশী সমাজ — রবীন্দ্রনাথ ঠাকুর
- iii) বাঙ্গালা ভাষা — হামী বিবেকানন্দ
- iv) শিল্প প্রসঙ্গ — নন্দলাল বসু
- v) অপবিজ্ঞান — রাজশেখর বসু
- vi) স্ত্রীজাতির অবনতি — বেগম রোকেয়া

মডিউল : ২ প্রতিবেদন রচনা (সংবাদপত্রে প্রকাশের উপযোগী করে কোন ঘটনার প্রতিবেদনের খসড়া রচনা) ১০

অথবা

পুনর্নির্মাণ (সংবাদপত্রে প্রকাশিত কোন প্রতিবেদন থেকে নিজস্ব অভিমত প্রকাশ কমবেশি ৫০ শব্দ)

মডিউল : ৩ পরিভাষা (ক.বি. প্রকাশিত 'ভাষাপাঠ সঞ্চয়ন'-এ নির্ধারিত ২৫০ টি) ৫

### খ। সাহিত্য

মডিউল : ৪ কবিতা (কাব্য সৌন্দর্য বিশ্লেষণ) ১০

রবীন্দ্রনাথ ঠাকুরের 'নৈবেদ্য'-র অন্তর্গত নিম্নলিখিত কবিতাসমূহ পাঠ্য :

- i) শতাব্দীর সূর্য আজি রক্তমেঘ-মাঝে..... (৬৪ নং)
- ii) স্বার্থের সমাপ্তি অপঘাতে..... (৬৫ নং)
- iii) তোমার ন্যায়ের দণ্ড প্রত্যেকের করে..... (৭০ নং)
- iv) চিন্তা যেথা ভয়শূন্য উচ্চ যেথা শির..... (৭২ নং)

মডিউল : ৫ ছোটগল্প ১০

রবীন্দ্রনাথ ঠাকুরের নিম্নলিখিত গল্পগুলি পাঠ্য :

- i) ছুটি ii) পোস্টমাস্টার iii) জীবিত ও মৃত iv) ধ্বংস



**UNIVERSITY OF CALCUTTA**

**SYLLABI**

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**THREE-YEAR HONOURS & GENERAL  
DEGREE COURSES OF STUDIES**



**PSYCHOLOGY  
2010**

# **PSYCHOLOGY SYLLABUS – GENERAL COURSE**

## **Part-I Paper-I (F.M. 100)**

### **Module 1.1 THEORY- 50 Marks**

#### **a) Basic Psychological Processes**

1. Introduction – Definition, Nature, Scope, Methods, Branches of Psychology
2. Sensory Processes and Perception - a.) Sensation – Attributes, Modality, Characteristics of Sensory Processes.  
b.) Difference between Sensation and Perception, Determinants of Perception. Gestalt Theory of perception.  
c.) Attention – Determinants of Attention. Fluctuation, Oscillation and Shifts.
3. Emotion – Nature, Basic Emotions, Physiological Correlates of Emotion.

#### **b) Biological Bases of Behaviour**

4. a) CNS – Brain and Spinal Cord  
b) PNS- Nerve Cell and its functions. Receptors and Effectors.
5. Endocrine Glands – Pituitary and Adrenal.

### **Module 1.2 THEORY-50 Marks**

#### **a) Developmental Psychology**

1. Introduction – Definition, scope, methods.
2. Heredity and Environment – Principles of heredity; Influence of Heredity and Environment on Development.
3. Child Development – Prenatal development; Postnatal development upto adolescence – physical and social.

2

#### **b) Educational Psychology**

4. Introduction: Definition, Scope and Methods. Relation of Psychology with Education.
5. Learning Theories – Trial and Error. Classical. Operant and Insight.
6. Memory and Forgetting – a) Encoding, Storage, Retrieval. Sensory, STM, LTM.  
c) Decay, Interference, Retrieval failure, Motivated forgetting.
7. Intelligence – a) Definition, Nature, Measurement



8. Exceptional Children – Gifted, MR.

## **Part II**

### **Module 2.1**

#### **Paper IIA**

#### **THEORY-50 Marks**

##### **a) Social Psychology**

1. Introduction: Nature, scope and methods
2. Social Interaction: Conformity; Cooperation; Norms, Attitude and Values.
3. Group: Nature of groups; Influence of group on individual behaviour; crowd and mob behaviour.
4. Social issues: Public opinion and Propaganda.

##### **b) Industrial Psychology**

5. Introduction: Aim, scope and methods.
6. Work and Environment: Illumination, Ventilation, Temperature, Noise.  
Accidents in Industry: Causes and Prevention.

### **Module 2.2**

#### **Paper IIB**

#### **PRACTICAL – 50 Marks**

#### **[Experiment/ Testing- 20; Statistics-10; LNB-10; Viva-10]**

1. Frequency Distribution and Graphical Representation (Polygon, Histogram, Bar Diagram, Pie Chart).
2. Measures of Central Tendency (Both long and short method)
3. Span of Attention; Fluctuation of Attention (Determination using intensity)
4. Assessment of Intelligence by a suitable Culture Fair Test – (Raven's Progressive Matrices Test).
5. Assessment of intelligence by a performance test – Dearborn's Form board OR KOH's block design.

3

### **Module 2.3**

#### **Paper IIIA**

#### **THEORY-50 Marks**

##### **a) Psychopathology**

1. Introduction: Definition of psychopathology. Concept of abnormality: Criteria of normality.
2. Determinants of Abnormal Behaviour : a) Biological; b) Psychological; c)Socio-Cultural
3. Methods of studying abnormal behaviour : Case History; Interview;

Psychometric; Projective.

4. Symptoms of : I) Schizophrenia – Paranoid; Disorganized; Catatonic; Undifferentiated and Residual Type.

II) Mood Disorders – Major Depressive and Dysthymic disorders.

III) Anxiety Disorders – Generalized Anxiety Disorder; Phobia; Obsessive and Compulsive Disorder.

#### **b) Adjustment**

5. Introduction: Concept of adjustment; Mental Health; Mental Hygiene; Criteria and factors of adjustment.

6. Stress: Concept, Types of Stress, Frustration and Conflict.

7. Reaction to stress: Generalized principles of adjustive behaviour; Task oriented and defence oriented reaction patterns.

8. Freudian Concept of Mind: Conscious, preconscious, and unconscious. Structure of Mind – Id, Ego and Superego.

### **Module 2.4**

#### **Paper IIIB**

#### **PRACTICAL – 50 Marks**

[Experiment/ Testing- 20; Statistics-10; LNB-10; Viva-10]

1. Measures of variability – AD, SD, Quartile

2. Correlation – Rank difference.

3. Determination of the affective values of colours by the method of impression.

4. Assessment of neurotic evidence of personality by any suitable test (KNPI).

5. Designing and conducting experiments on Memory

a) Learning method using nonsense and meaningful materials.

Whole vs. Part learning.

[The four semesters cover papers I, II, and III respectively. Total 300marks]

4

#### **Selected Books (Texts and References): Part-I and Part II**

1. American Psychiatric Association: Quick Reference to The Diagnostic Criteria from DSM – IV: Jaypee Brothers, New Delhi, 1<sup>st</sup> Indian Edition, 1995.

2. Bhatia, H.R.: Elements of Educational Psychology. Orient Longman, Calcutta, 1973.

3. Boring, E.G., Langfield, H.S. & Weld, H.P.: Foundations of Psychology, Asia Publishing House, Calcutta, 1963.

4. Carson, R.C., Butcher, J.N. & Coleman, J.C.: Abnormal Psychology & Modern Life, (8<sup>th</sup> ed.) Scoff, Foresman & Co. 1988.

5. Collins, M. & Drever, J.: Experimental Psychology, Lyall Book Depot, Ludhiana, 1968.

6. Garrett, H.E. & Woodworth, R.S.: Statistics in Psychology and Education, Vakils Feffer & Simons Ltd. 1981.

7. Hurlock, E.B.: Child Development, McGraw Hill 1979.

8. Kuppuswamy, B.: Elements of Social Psychology, Vikas Pub. House ( P) Ltd. New Delhi, 1993.

9. McCormick, E.J. & Tiffin, J.: Industrial Psychology, Prentice Hall, New Delhi, 1974.

10. Morgan, C.T., King, R.A., Weisz, J.R., & Schopler, J: Introduction to Psychology (International Student Edition) McGraw Hill Book Co., 1986.

11. Munn, N.L., Fernald, R.S. & Carmichael, L.: An Introduction to Psychology, (8<sup>th</sup>

ed.) Oxford and IBH Pub. Co. Calcutta, 1967.

12. Parameswaram, E.G.E., Beena, C.: Invitation to Psychology, Tata McGraw Hill Publishing Co. Ltd. New Delhi, 1968.

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### Module 3.1

#### Part III

#### Paper IVA

#### THEORY-50 Marks

##### a) Guidance and Counselling I

1. Concept of Guidance and Counselling.

2. Special areas of Counselling – Educational, Vocational, Family, Marriage, Old age and Health.

3. a) Counselling Process – Steps of Counselling; Factors influencing counselling.

b) Methods - Directive and Non-directive.

##### b) Guidance and Counselling II

4. a) Psychological Tests: Types, Characteristics and Uses.

b) Aptitude, Interest and Personality tests.

6. Non-test Appraisal Techniques: Case Study, Cumulative Record Card.

### Module 3.2

#### Paper IVB

#### PRACTICAL – 50 Marks

[Testing- 30; LNB-10; Viva-10]

Application of Psychological Tests

1. Personality test – EPQ

2. Verbal Intelligence Test – Terman- Merrill

3. Strong and Deb Vocational Interest Blank or Guildford Zimmerman Interest Inventory

4. Aptitude Test – D.A.T (Selected Parts- Spatial Relation and Mechanical Aptitude).

[Semesters 5 and 6 comprise paper IVa, and IVb. Total 100 marks.]

6

#### Selected Books (Texts and References): Part-III:

1. Mandal, J. : Mental Health, Mental Disorder and Psychotherapy, 2010, Shoma

Book Agency.

2. Jones, A.J.: Principles of Guidance, (Latest Ed.) Tata McGraw Hill Co. New Delhi.

3. Kochar, S.K.: Educational & Vocational Guidance in Secondary Schools, (Latest Ed.), Sterling Pub. Pvt. Ltd. New Delhi.

4. Rao, S. Narayan: Counselling and Guidance, (Latest Ed.) The School Guidance of Work (Latest Ed.), General Printers and Publishers, Calcutta.

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## PSYCHOLOGY – GENERAL COURSE OF STUDY

### MARKS DISTRIBUTION FOR EXAMINATION PURPOSE FOR EACH

#### THEORETICAL MODULE

1. Two questions of 5 marks each out of 4 choices (Word Limit for each answer- 250)
2. One question of 10 marks out of 3 choices (Word Limit for each answer- 500)
3. Two questions of 15 marks each out of 4 choices (Word Limit for each answer- 800)

EXAMINATION TIME FOR EACH THEORETICAL MODULE      2 HOURS

### MARKS DISTRIBUTION FOR EXAMINATION

#### PURPOSE FOR EACH

#### PRACTICAL MODULE

- |                         |      |
|-------------------------|------|
| 1. Experiment/ Testing  | - 20 |
| 2. Statistics           | - 10 |
| 3. Laboratory Note Book | - 10 |
| 4. Viva Voce            | - 10 |

### EXAMINATION TIME FOR EACH PRACTICAL MODULE

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|---------|-----------------------|
| 1 Hour  | - Statistics          |
| 2 Hours | - Experiment/ Testing |

UNIVERSITY OF CALCUTTA

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HINDI

2016

# Hindi General

## Part-I

### पहला प्रश्नपत्र

### खंड-1 : 50 अंक

### मध्यकालीन हिंदी काव्य

1. **कबीर के दोहे** – सतगुरु की महिमा अनंत, कस्तूरी कुंडलि बसे, सुखिया सब संसार है, कबिरा यह घर प्रेम का, माला फेरत जुग भया, हेरत हेरत हे सखि, सुखिया सब संसार है, कबीर यह घर प्रेम का, प्रेम न बारी ऊपजै, पानी केरा बुदबुदा, जब मैं था तब हरि नहिं, हिंदू मुए राम कहि, जात न पूछो साध की, पढि-पढि के पत्थर भए, साईं इतना दीजिए, कबिरा कूता राम का, चकई बिछुरी रैन की।
2. **सूरदास** – जसोदा हरि पालनैं झुलावैं, किलकत कान्ह घटरुवनि आवत, कान्ह चलत पग द्वै द्वै धरनी, खेलत में को काको गुसैयां, मैया बहुत बुरौ बलदाऊ, ऊधो धनि तुम्हारौ व्यवहार, उर में माखनचोर गड़े, ए अलि कहा जोग में नीको, निर्गुन कौन देस को बासी, अब अति चकितवंत मन मेरो।
3. **तुलसीदास** – ऐसी मूढता या मन की, जाऊँ कहाँ तजि चरन तिहारे, अब लौं नसानी अब न नसैहों, ऐसो को उदार जग माहीं, मन पछितैहैं अवसर बीते। **दोहे** – राम नाम मनिदीप धरि, एक भरोसो एक बल, आवत ही हरषे नहीं, जड चेतन गुन दोषमय, तुलसी मीठे वचन ते, तुलसी साथी विपति के, मुखिया मुख सो चाहिए, राम नाम अवलंब बिनु, प्रीति राम सो जिति पथ, बिनु विस्वास भगति नहिं।
4. **मीराबाई** – तनक हरि चितवै हमरी ओर, मैं तो सांवरे के रंग रांची, हेरी मैं तो दरद दीवाणी, सखी मेरी नींद नसानी हो, कोई कहियो रे प्रभु आवन की, फागुन के दिन चार, चलो मन गंगा जमना तीर, पग घुंघरू बाँध मीरा नाची रे.
5. **बिहारी** – या अनुरागी चित्त की, जप माला छापा तिलक, समै समै सुंदर सबै, दिन दस आदर पाय के, गुनी गुनी सबके कहे, बतरस लालच लाल के, तो पर वारों उरवसी, जब जब वै सुधि कीजिए, इन दुखिया आँखियान को, कहत सबै बेंदी दिए।

अंक विभाजन : 3 व्याख्याएँ x8 = 24

1 आलोचनात्मक x14 = 14

2 लघूत्तरी प्रश्न x6 = 12

## खंड – 2 : 50 अंक

### आधुनिक हिंदी काव्य

- (i) **जयशंकर प्रसाद** – हिमाद्रि तुंग शृंग से, मधुप गुनगुनाकर कह जाता, ले चल मुझे भुलावा देकर, तुमुल कोलाहल कलह में, अरुण यह मधुमय देश हमारा, हिमालय के आंगन में उसे प्रथम,
- (ii) **सूर्यकान्त त्रिपाठी निराला** – वर दे वीणावादिनी, संध्या सुंदरी, वह तोड़ती पत्थर, जल्द जल्द पैर बढ़ाओ, ध्वनि, अभी न होगा मेरा अंत, जागो फिर एक बार, राजे ने रखवाली की, गहन है यह अंधकार।
- (iii) **महादेवी वर्मा** – धीरे-धीरे उतर क्षितिज से, सब बुझे दीपक जला लूं, मैं नीर भरी दुख की बदली, पंथ रहने दो अपरिचित, यह मंदिर का दीप, चिर सजग आँखें उनींदी, मधुर पिक हौले-हौले बोल
- (iv) **सच्चिदानंद हीरानंद वात्स्यायन अज्ञेय** – यह दीप अकेला, कलगी बाजरे की, मैं वहाँ हूँ, हरी घास पर क्षण भर, साँप।
- (v) **नागार्जुन** – अकाल और उसके बाद, बहुत दिनों के बाद, घिन तो नहीं आती, कल्पना के पुत्र हे भगवान, प्रतिबद्ध हूँ, शासन की बंदूक

अंक विभाजन : 3 व्याख्याएँ x8 = 24

1 आलोचनात्मक प्रश्न x14 = 14

2 लघूत्तरी प्रश्न x6 = 12

#### सहायक ग्रंथ

1. कबीर –हजारी प्रसाद द्विवेदी
2. मीरा का काव्य- विश्वनाथ त्रिपाठी
3. कबीर ग्रंथावली-श्यामसुन्दर दास
4. तुलसी- उदयभानु सिंह
5. सूरदास- (सं) हरवंश लाल शर्मा
6. विनय पत्रिका- सं. वियोगी हरि
7. भक्ति आंदोलन और सूरदास का काव्य-मैनेजर पाण्डेय
8. बिहारी प्रकाश- आचार्य विश्वनाथ प्रसाद मिश्र
9. प्रसाद का काव्य - प्रेमशंकर
10. आधुनिक साहित्य की प्रवृत्तियां- नामवर सिंह
11. छायावाद- नामवर सिंह
12. अज्ञेय और आधुनिक रचना की समस्या- रामस्वरुप चतुर्वेदी

13. महादेवी- (सं) इन्द्रनाथ मदान
14. निराला की साहित्य साधना, भाग-2- रामविलास शर्मा
15. निराला : एक आत्महंता कवि- दूधनाथ सिंह
16. नागार्जुन- (सं.) परमानंद श्रीवास्तव
17. नागार्जुन का रचना संसार- विजयबहादुर सिंह

## Part-2

### दूसरा प्रश्न पत्र

### खंड 1 : 50 अंक

### नाटक और कथा साहित्य

- (i) नाटक : अंधेर नगरी – भारतेन्दु हरिश्चंद्र
- (ii) उपन्यास : निर्मला – प्रेमचंद

#### कहानियाँ

ईदगाह (प्रेमचंद) पुरस्कार – (जयशंकर प्रसाद), बदला (अज्ञेय), अकेली (मन्नू भंडारी), अमृतसर आ गया (भीष्म साहनी) बर्डे (स्वयंप्रकाश) टेपचू (उदय प्रकाश), ब्लैक होल (संजीव)

अंक विभाजन : 3 व्याख्याएँ x 8 = 24, 1 अलोचनात्मक x 14 = 14, 2 लघूत्तरी x 6 = 12

### निबंध एवं अन्य गद्य विधाएँ

### खंड – 2 : 50 अंक

- (i) निबंध : उत्साह (रामचंद्र शुक्ल), आत्मनिर्भरता, (बालकृष्ण भट्ट), कुटज (हजारीप्रसाद द्विवेदी), मेरे राम का मुकुट भींग रहा है (विद्यानिवास मिश्र)
- (ii) यात्रा वृत्तांत – किन्नर देश में (राहुल सांकृत्यायन)
- (iii) रेखाचित्र – सोना (महादेवी वर्मा)
- (iv) व्यंग्य : धर्मक्षेत्रे कुरुक्षेत्रे – (हरिश्चंकर परसाई)

अंक विभाजन : 3 व्याख्याएं x 8 = 24, एक आलोचनात्मक प्रश्न x 14=14,

2 लघूत्तरी प्रश्न x 6=12



### सहायक ग्रंथ

1. आज का नाटक: प्रगति और प्रभाव-दशरथ ओझा
2. समकालीन हिंदी नाटक की संघर्ष योजना- गिरीश रस्तोगी
3. समकालीन हिन्दी नाटककार- गिरीश रस्तोगी
4. भारतेन्दु हरिश्चंद्र और हिन्दी नवजागरण की समस्याएं- रामविलास शर्मा
5. प्रेमचंद और उनका युग- रामविलास शर्मा
6. प्रेमचंद की विरासत- शिवकुमार मिश्र
7. कहानी: नई कहानी- नामवर सिंह
8. नई कहानी : स्वरूप और संवेदना- राजेन्द्र यादव
9. हिन्दी कहानी का विकास- मधुरेश
10. हिन्दी का गद्य साहित्य- रामचंद्र तिवारी
11. अपनी अपनी बीमारी- हरिशंकर परसाई

## तीसरा प्रश्न पत्र

### खंड-1 : 50 अंक

### हिंदी भाषा और साहित्य का इतिहास

- (i) हिंदी की उत्पत्ति, हिंदी भाषा परिवार की बोलियाँ, खड़ी बोली हिंदी का विकास
- (ii) हिंदी साहित्य के इतिहास का काल विभाजन और नामकरण
- (iii) आदिकाल की प्रमुख प्रवृत्तियाँ, प्रमुख कवि परिचय : चंदबरदाई, अमीर खुसरो, विद्यापति, सरहपा, गोरखनाथ।
- (iv) पूर्व मध्यकाल : संत काव्य, सूफी प्रेमाख्यानक काव्य, सगुण काव्य, कृष्ण भक्तिधारा, राम भक्तिधारा, प्रमुख कवि परिचय : तुलसी, सूर, जायसी, कबीर, मीरा।
- (v) उत्तर मध्यकाल : रीतिकाव्य की प्रमुख धाराएँ और प्रवृत्तियाँ। प्रमुख कवि परिचय : केशव, देव, बिहारी, घनानंद, भूषण।

अंक विभाजन : 2 आलोचनात्मक प्रश्न x 15 = 30, 3 लघूत्तरी प्रश्न x 5 = 15, 5 वस्तुनिष्ठ प्रश्न x 1 = 5

## खंड - 2 : 50 अंक

### हिंदी साहित्य का इतिहास : आधुनिक काल

- (i) आधुनिक काल का सामान्य परिचय
- (ii) हिंदी गद्य का विकास, भारतेन्दु हरिश्चंद्र का योगदान, भारतेन्दु मंडल : संक्षिप्त परिचय।
- (iii) महावीर प्रसाद द्विवेदी और उनके युग की विशेषताएँ प्रमुख साहित्यकारों का संक्षिप्त परिचय : बालमुकुंद गुप्त, अयोध्यासिंह उपाध्याय 'हरिऔध', मैथिलीशरण गुप्त
- (iv) छायावाद की प्रमुख विशेषताएँ, प्रमुख साहित्यकारों का परिचय : प्रसाद, निराला, पंत और महादेवी वर्मा
- (v) प्रगतिवाद की प्रमुख विशेषताएं
- (vi) प्रयोगवाद और नई कविता की प्रमुख विशेषताएँ
- (vii) नाटक, कहानी, उपन्यास का विकास
- (viii) स्त्री विमर्श, दलित विमर्श (सामान्य परिचय)

अंक विभाजन : 2 आलोचनात्मक प्रश्न x 15 = 30, 3 लघूत्तरी प्रश्न x 5 = 15, 5 वस्तुनिष्ठ प्रश्न x 1 = 5

#### सहायक ग्रंथ

1. हिन्दी साहित्य का इतिहास-रामचंद्र शुक्ल
2. हिन्दी साहित्य : उदभव और विकास- हजारी प्रसाद द्विवेदी
3. हिन्दी साहित्य का दूसरा इतिहास- बच्चन सिंह
4. हिन्दी साहित्य का इतिहास- सं. नगेन्द्र
5. आधुनिक साहित्य की प्रवृत्तियाँ- नामवर सिंह
6. हिन्दी नवजागरण और संस्कृति-शंभुनाथ

## Part – 3

### चौथा प्रश्न पत्र

खंड -1 : 50 अंक

### प्रयोजनमूलक हिंदी

- (i) प्रयोजनमूलक हिंदी का अर्थ : उपयोगिता और प्रयोग के क्षेत्र
- (ii) हिंदी के विभिन्न रूप, बोलचाल की भाषा, सृजनात्मक भाषा, बाजार की भाषा, राष्ट्रभाषा, राजभाषा और संपर्क भाषा
- (iii) राष्ट्रभाषा हिंदी की संवैधानिक स्थिति – राजभाषा अधिनियम 1963, राजभाषा संकल्प 1968, राजभाषा अधिनियम 1976 का सामान्य परिचय
- (iv) प्रशासनिक पत्राचार, टिप्पण एवं आलेखन ।
- (v) अनुवाद का महत्व, साहित्यिक अनुवाद और कार्यालयीन अनुवाद में अंतर, अनुवाद से जुड़ी प्रमुख समस्याएँ।

अंक विभाजन : 2 आलोचनात्मक प्रश्न x 16 = 32, 3 लघूत्तरी प्रश्न x 6 = 18

खंड – 2 : 50 अंक

### मीडिया लेखन

- (i) समाचार : समाचार का अर्थ, समाचार के तत्व, समाचार मूल्य, समाचार के प्रकार, समाचार लेखन
- (ii) रिपोर्टिंग का अर्थ, संवाददाता या रिपोर्टर की योग्यता और दायित्व, रिपोर्टिंग लेखन।
- (iii) फीचर लेखन: फीचर लेखन क्या है?, फीचर के प्रकार, फीचर और लेख में अन्तर।
- (iv) विज्ञापन लेखन : विज्ञापन का अर्थ, उपयोगिता और प्रविधि। विज्ञापन लेखन।
- (v) प्रूफ संशोधन : प्रूफ संशोधन कार्य का सामान्य परिचय, प्रूफ संशोधन के संकेत और पद्धति, प्रूफ संशोधन : व्यवहार।
- (vi) मीडिया समीक्षा – पुस्तक समीक्षा, फिल्म समीक्षा, टी.वी.धारावाहिक समीक्षा।
- (vii) साक्षात्कार

अंक विभाजन : 2 आलोचनात्मक प्रश्न x16= 32, 3 लघूत्तरी प्रश्न x6=18

सहायक ग्रंथ

1. पत्रकारिता : इतिहास और प्रश्न
2. प्रयोजन मूलक हिन्दी- विनोद गोदरे
3. प्रयोजनमूलक हिन्दी : सिद्धांत और प्रयोग- दंगल झाल्टे
4. राजभाषा हिन्दी- भोलानाथ तिवारी
5. समाचार फीचर लेखन एवं संपादन कला- हरिमोहन
6. समाचार एवं प्ररूप लेखन-दिनेश गुप्त
7. हिन्दी पत्रकारिता और जनसंचार- ठाकुरदत्त आलोक
8. हिन्दी पत्रकारिता के इतिहास की भूमिका-जगदीश्वर चतुर्वेदी
9. जनसंचार और हिन्दी पत्रकारिता-अर्जुन तिवारी

## MIL

### 50 अंक

#### निबंध :

क्या निराश हुआ जाए – हजारी प्रसाद द्विवेदी, घीसा – महादेवी वर्मा, पर्यावरण संरक्षण – शुकदेव प्रसाद  
कविताएँ

- (i) पेशोला की प्रतिध्वनि – जयशंकर प्रसाद
- (ii) पैतृक संपत्ति (जब बाप मरा...) – केदारनाथ अग्रवाल
- (iii) उनको प्रणाम – नागार्जुन
- (iv) हो गई है पीर पर्वत सी – दुष्यंत कुमार
- (v) धार्मिक दंगों की राजनीति – शमशेर बहादुर सिंह

#### कहानियाँ

1. मंत्र – प्रेमचंद
2. भोलाराम का जीव – हरिशंकर परसाई
3. त्रिशंकु – मन्नू भंडारी

#### पारिभाषिक शब्दावली-100 शब्द

1. Accountability	जवाबदेही
2. Ad-hoc	तदर्थ
3. Adjournment	स्थगन
4. Adjustment	समायोजन
5. Agenda	कार्यसूची
6. Agreement	अनुबंध
7. Allotment	आवंटन
8. Allowance	भत्ता
9. Allowance	अनुमोदन

10. Authority	प्राधिकरण
11. Autonomous	स्वायत्त
12. Bonafide	वास्तविक
13. Bye-law	उप-विधि
14. Charge	प्रभार
15. Circular	परिपत्र
16. Compension	क्षतिपूर्ति
17. Confirmation	पुष्टि
18. Consent	सहमति
19. Contract	संविदा
20. Discretion	विवेक
21. Enclosure	संलग्नक
22. Ex-Office	पदेन
23. Honorarium	मानदेय
24. Infrastructure	आधारभूत संरचना
25. Memorandum	ज्ञापन
26. Modus operandi	कार्य-प्रणाली
27. Notification	अधिसूचना
28. Officiating	स्थानापन्न
29. Postponement	स्थगन
30. Proceedings	कार्यवाही
31. Record	अभिलेख
32. Retirement	सेवानिवृत्ति
33. Stagnation	गतिरोध
34. Verification	सत्यापन
35. Account	लेखा/खाता
36. Accountant	लेखाकार

37. Adjustment	समायोजन
38. At-par	सममूल्य पर
39. Audio-Visual display	दृश्य-श्रव्य प्रदर्श
40. Audit	लेखा-परीक्षा
41. Audition	स्वर/ध्वनि परीक्षण
42. Auditorium	प्रेक्षागृह
43. Authentic	प्रामाणिक
44. Back dated	पूर्व-दिनांकित
45. Bail	जमानत
46. Bank-Guaranty	बैंक प्रत्याभूति
47. Bearer	वाहक
48. Cash Balance	रोकड़ बाकी
49. Clearing	समाशोधन
50. Commission	दलाली
51. Confiscation	अधिहरण
52. Convertible	परिवर्तनीय
53. Currency	मुद्रा
54. Current	चालू खाता
55. Divident	लाभांश
56. Documentation	प्रलेखन
57. Endorsement	बंदोबस्ती
58. Exchange	विनिमय
59. Finance	वित्त
60. Fixed Deposit	सावधि जमा
61. Forfeiture	जब्ती
62. Guaranty	प्रत्याभूति
63. Indemnity Bond	क्षतिपूर्ति बंध

64. Insolvency	दिवाला
65. Investment	निवेश
66. Lease	पट्टा
67. Long term credit	दीर्घावधि उधार
68. Lumpsum	एकमुश्त
69. Mobilisation	संग्रहण
70. Moratorium	भुगतान-स्थगन
71. Mortgage	गिरवी
72. Output	उत्पादन
73. Outstanding	बकाया
74. Payable	देय
75. Payment	भुगतान
76. Progressive-note	रुक्का/हुण्डी
77. Realization	वसूली
78. Recommendation	संस्तुति
79. Rectification	परिशोधन
80. Recurring	आवर्ती
81. Redeemable	प्रतिदेय
82. Renewal	नवीकरण
83. Revenue	राजस्व
84. Sensex	शेयर सूचकांक
85. Security	प्रतिभूति
86. Short-term credit	अल्पावधि उधार
87. Squeeze	अधिसंकुचन
88. Sur-charge	अधिभार
89. Suspense Account	उचंत लेखा
90. Trade Mark	मार्का



91. Transaction	लेनदेन
92. Transfer	अंतरण
93. Turn over	पण्यावर्त
94. Undervaluation	अवमूल्यन
95. Validity	वैधता
96. Vault	तहखाना
97. Warranty	आश्चस्ति
98. Withdrawal	आहरण
99. Working Capital	कार्यशील पूंजी
100. Winding up	समेटना

प्रतिवेदन / आवेदन पत्र लेखन

प्रमुख साहित्यकारों की तस्वीर और उनका संक्षिप्त परिचय

अंक विभाजन – पठित गद्यांश ( निबंध) और उनपर प्रश्न- 15 अंक

अथवा

निबंध व कहानियों पर तीन प्रश्न- 5 x 3= 15 अंक

आवेदन / प्रतिवेदन पर -10 अंक

हिन्दी रूप पर – 1x 5= 5 अंक

कविताओं पर एक प्रश्न -10 अंक

कहानियों पर एक प्रश्न-10 अंक

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# UNIVERSITY OF CALCUTTA

## SYLLABI

F  
O  
R

THREE-YEAR B.Sc. HONOURS & GENERAL  
COURSES OF STUDIES



STATISTICS

2010

## GENERAL

### **101 Descriptive Statistics I**

Types of statistical data, Compilation, Classification, Tabulation and Diagrammatic representation of data, Frequency Distribution, Cumulative Distribution and their graphical representation, Histogram, Frequency Polygon, Frequency Curve and Ogive. (11L)

Analysis of Univariate Quantitative Data – concepts of central tendency, dispersion, relative dispersion, skewness and kurtosis and their measures based on quantiles and moments. (14L)

#### ***References:***

1. Goon A.M., Gupta M. & Dasgupta B.(2001) : Fundamentals of Statistics (Vol. 1), World Press
2. Yule G.U. & Kendall M.G.(1950) : Introduction to the Theory of Statistics, Charles Griffin
3. Nagar A.L. & Das R.K. (1976): Basic Statistics
4. Bhattacharyya G. K. & Johnson R. A. (1977) : Concepts & Methods of Statistics, J.Wiley

### **102 Probability I**

Random Experiments and Random Events, Statistical regularity and meaning of Probability, Classical and Axiomatic definitions of Probability (discrete sample space only), Conditional Probability, Independence of Events, Principal Theorems including union and intersection of events and Bayes Theorem. (13L)

Random Variable and its Probability Distribution, Cumulative Distribution Function, Probability Mass Function and Probability Density Function, Mathematical Expectation, Variance and Moments. Joint Distribution of two random variables, Marginal and Conditional distributions, Covariance and Correlation, Simple Theorems including theorems on expectation and variance of a sum of random variables and expectation of product of random variables. (12L)

#### ***References:***

1. Goon A.M., Gupta M. & Dasgupta B.(1997): An Outline of Statistics(Vol 1), World Press
2. Feller W.(1968) : An Introduction to Probability Theory & its Applications, John Wiley
3. Cacoullos T. (1973): Exercises in Probability, Narosa
4. Bhattacharyya G. K. & Johnson R. A. (1977) : Concepts & Methods of Statistics, J.Wiley
5. Freund J.E. (2001): Mathematical Statistics, Prentice Hall
6. Pitman J. (1993): Probability, Narosa
7. Stirzaker D. (1994): Elementary Probability, Cambridge University Press
8. Rathie and Mathai: Probability and Statistics

## 201 Descriptive Statistics II

Fitting of Binomial, Poisson and Normal distributions (2L)

Analysis of Bivariate Quantitative Data – Scatter Diagram, Product Moment Correlation Coefficient and its properties, Regression Analysis, Fitting of Linear and Polynomial equations by the principle of Least Squares, Correlation Index, Spearman's Rank Correlation Coefficient. (15L)

Analysis of Multivariate Quantitative Data – Multiple Regression, Multiple Correlation and Partial Correlation in *three* variables, their measures and related results. (8L)

### References:

1. Goon A.M., Gupta M. & Dasgupta B.(2001) : Fundamentals of Statistics (Vol. 1), World Press
2. Yule G.U. & Kendall M.G.(1950) : Introduction to the Theory of Statistics, Charles Griffin
3. Nagar A.L. & Das R.K. (1976): Basic Statistics
4. Bhattacharyya G. K. & Johnson R. A. (1977) : Concepts & Methods of Statistics, J.Wiley

## 202 Probability II

Standard Univariate Discrete Distributions and their properties – Discrete Uniform, Binomial, Poisson, Hypergeometric, Geometric and Negative Binomial distributions (10L)

Standard Univariate Continuous Distributions – Uniform, Normal, Exponential, Gamma, Beta and Lognormal distributions, Bivariate Normal distribution and statement of its general properties (10L)

Chebychev's Inequality, Weak Law of Large Numbers, Statement of Central Limit Theorem (i.i.d. case) and its uses. (5L)

### References:

1. Goon A.M., Gupta M. & Dasgupta B.(1997): An Outline of Statistics(Vol 1), World Press
2. Feller W.(1968) : An Introduction to Probability Theory & its Applications, John Wiley
3. Cacoullos T. (1973): Exercises in Probability, Narosa
4. Bhattacharyya G. K. & Johnson R. A. (1977) : Concepts & Methods of Statistics, J.Wiley
5. Freund J.E. (2001): Mathematical Statistics, Prentice Hall
6. Pitman J. (1993): Probability, Narosa
7. Stirzaker D. (1994): Elementary Probability, Cambridge University Press
8. Rathie and Mathai: Probability and Statistics

### 301 Sampling Distributions and Point Estimation

Concepts of Population and sample, Random Sampling and Sampling Distributions of Statistics, sampling distribution of sum of independent Binomial and Poisson variables,  $\chi^2$ , t and F distributions (derivations excluded), sampling distribution of mean and variance of independent Normal variables.

(13L)

Point Estimation of a population parameter – concepts of Bias and Standard Error of an estimator, concepts of Unbiasedness, Minimum Variance, Consistency and Efficiency of an estimator, Method of Moments, Maximum Likelihood Method of estimation, Method of Least Squares, Point estimators of the parameters of Binomial, Poisson, and univariate Normal distributions.

(12L)

#### **References:**

1. Goon A.M., Gupta M. & Dasgupta B.(1997) : An Outline of Statistics (Vol 1), World Press
2. Goon A.M.,Gupta M.& Dasgupta B.(2001): Fundamentals of Statistics (Vol 1), World Press
3. Mood A.M., Graybill F. & Boes D.C.(1974) : An Introduction to the theory of Statistics (3<sup>rd</sup> ed.), McGraw Hill
4. Rohatgi V.K. (1984): An Introduction to Probability Theory and Mathematical Statistics, John Wiley
5. Goon A.M.,Gupta M.& Dasgupta B.(2001): Fundamentals of Statistics (Vol 1), World Press

### 302 Economic Statistics, Time Series Analysis

*Economic Statistics:* Index Number –construction and use of price index numbers and tests in connection with them, Consumer and Wholesale price index numbers, their uses and major steps in their construction.

(12L)

*Time Series Analysis:* Different components of a times series, determination of Trend by method of simple moving-averages and by fitting mathematical curves by least squares principle, determination of seasonal indices by methods of trend ratios and ratios to moving averages.

(13L)

#### **References:**

1. Goon A.M.,Gupta M.& Dasgupta B.(2001): Fundamentals of Statistics (Vol 2), World Press
2. Yule G.U.& Kendall M.G.(1950) : Introduction to the Theory of Statistics, Charles Griffin
3. Nagar A.L. & Das R.K. (1976): Basic Statistics
4. Mukhopadhyay P. (1999): Applied Statistics
5. Croxton F. E., Cowden D. J. & Klein (1969) : Applied General Statistics, Prentice Hall

## 401 Statistical Inference

Statistical tests of Hypotheses – Null and Alternative hypotheses, Types of Errors, Critical Region, Level of Significance, Power and p-values, Exact tests of hypotheses under Normal set-up for a single mean, the equality of two means, a single variance and the equality of two variances, Test of Significance of sample correlation coefficient (null case) and tests of hypotheses for the equality of means and equality of variances of a bivariate Normal distribution. (13L)

Interval Estimation – Confidence Interval and Confidence Coefficient, Exact confidence interval under Normal set-up for a single mean, single variance, the difference of two means and the ratio of two variances. (5L)

Large Sample Tests and related Interval Estimates of a single mean and a single proportion and difference of two means & two proportions, Pearsonian  $\chi^2$  tests for goodness of fit & for homogeneity and independence in a contingency table. (7L)

### **References:**

1. Goon A.M., Gupta M. & Dasgupta B.(1997) : An Outline of Statistics (Vol 1), World Press
2. Goon A.M.,Gupta M.& Dasgupta B.(2001): Fundamentals of Statistics (Vol 1), World Press
3. Mood A.M., Graybill F. & Boes D.C.(1974) : An Introduction to the theory of Statistics (3<sup>rd</sup> ed.), McGraw Hill
4. Rohatgi V.K. (1984): An Introduction to Probability Theory and Mathematical Statistics, John Wiley
5. Goon A.M.,Gupta M.& Dasgupta B.(2001): Fundamentals of Statistics (Vol 1), World Press

## 402 Population Statistics and Statistical Quality Control

### **Population Statistics:**

Vital events, Rates and Ratios, Measurement of Mortality – Crude, Specific and Standardized death rates, Complete Life Table, Measurement of Fertility and Reproduction – Crude Birth Rate, General, Specific and Total fertility rates, Gross and Net reproduction rates. (14L)

### **Statistical Quality Control:**

Advantages of statistical quality control, Construction of control charts by attributes (p, c, np) and variables ( $\bar{x}$ , R). (7L)

Sampling Inspection Plan by attributes, OC, ASN (and ATI), LTPD and AOQL for single sampling plan (4L)

### **References:**

1. Goon A.M.,Gupta M.& Dasgupta B.(2001): Fundamentals of Statistics (Vol 2), World Press
2. Yule G.U.& Kendall M.G.(1950) : Introduction to the Theory of Statistics, Charles Griffin
3. Nagar A.L. & Das R.K. (1976): Basic Statistics
4. Mukhopadhyay P. (1999): Applied Statistics
5. Croxton F. E., Cowden D. J. & Klein (1969) : Applied General Statistics, Prentice Hall

## 501 Sample Survey Methods:

Concepts of population and sample, Need for sampling, Stages in the design and conduct of sample surveys. Concept of probability sampling, Random Number tables. Simple random sampling with and without replacement (8L)

Stratified random sampling – associated unbiased estimators of population mean, total and proportion, their variances and unbiased variance estimators, Linear Systematic sampling, Two-stage sampling (with primary units of equal size and equal selection probability at each stage) – unbiased estimation of population mean and total. (17L)

### **References:**

1. Goon A.M., Gupta M. & Dasgupta B. (2001): Fundamentals of Statistics (Vol 2), World Press
2. Cochran W.G. (1984): Sampling Techniques (3<sup>rd</sup> ed.), Wiley Eastern
3. Nagar A.L. & Das R.K. (1976): Basic Statistics
4. Mukhopadhyay P. (1999): Applied Statistics

## 601 Design & Analysis of Experiments

Analysis of Variance in one-way classified data and two-way classified data with equal number of observations in each cell. (10L)

Basic principles of design – Randomization, Replication and Local Control, Completely Randomized design, Randomized Block design and Latin Square design, applications of the technique of Analysis of Variance for the analysis of data collected under these designs. (15L)

### **References:**

1. Goon A.M., Gupta M. & Dasgupta B. (2001): Fundamentals of Statistics (Vol 2), World Press
2. Kempthorne O. (1965): The Design & Analysis of Experiments, Wiley Eastern
3. Nagar A.L. & Das R.K. (1976): Basic Statistics
4. Mukhopadhyay P. (1999): Applied Statistics

## পাঠ্যক্রম (Syllabus)

### Physical Education (General)

#### PAPER I – 100 Marks

##### Group A

##### Principles and History of Physical Education (30 Marks)

- 1. Nature and scope of Physical Education: Related concepts**  
(a) Education (b) Physical Education (c) Physical Training  
(d) Sports (e) Yogic Exercises (f) Sports Training.
- 2. Aims of Objectives of Physical Education:**  
Physical development, Mental development, Social development and Motor development objectives, Changing concepts of Physical Education.
- 3. Development of physical Education and sports in India:**  
(a) Pre-independence (b) Post-independence.
- 4. Olympic Movement:**  
(a) Ancient Olympic Games (b) Modern Olympic Games
- 5. Sports Scheme in India.**

##### Group B

##### Psycho-Social Aspects of Sports (20 Marks)

1. Introduction—Psychophysical Unity of Man.
2. Heredity and Environment.
3. Instinct, Emotion, Interest and Motivation—Role in sports.
4. Physical Education as a Socialising-force.
5. Social Values of Sports.

##### Group C

##### Anatomy and Physiology (30 Marks)

1. Cell-Structure and Function
2. Skeletal System and Skeletal deformities—Types of bones, name of various bones of the body.  
Type of Joints Postural defect : Kyprhosis, lordosis, scoliosis, flat-foot etc. Nature, Causes and Correction.



3. Circulatory system-Heart its structure, Blood Circulation, Mechanism of, Types of blood vessels, blood pressure, Effects of exercise.
4. Respiratory System Organs of the system, mechanism of respiration-inspiration and Expiration, Vital capacity, Oxygen Debt, Effects of exercise.
5. Nervous System-parts of the brain and their structure, Spinal cord, Reflex Action, Reciprocal innervations, All or none law.
6. Endocrine System-Meaning of Endocrine Gland; function, location of pituitary, Thyroid and Adrenal Glands.

### Group D

#### Dietetics and Hygiene (230 Marks)

1. Basic Nutrients —Protein, Carbohydrates, Fats, Vitamins, Minerals and water.
2. **Need of Nutrients:**
  - (a) Growth and Repair
  - (b) Vitality and Fitness
  - (c) Production of Calories for energy and warmth.
3. **Quality of Food**—How and when to eat, Diets for different age Groups, Food preference, Sources of Food.
4. **Balanced diet, Athletic Diet, Standard Diet.**
5. **Mid-day Meal and Milk programmes Malnutrition** –Causes and Effects.
6. **Drink Water, Tea-Coffee, Alcohol**—their effects on health and performance.
7. Importance of Hygienic living, personal Hygiene; Care of skin, hair, ear, throat, teeth, eyes, nose, feet etc, Fatigue, Habits.

## পাঠ্যক্রম (Syllabus)

### Physical Education/Paper-II

#### Group A: Management of Physical Education & Sports (30 Marks)

1. Management of Sports and Games in School, College and Universities.
2. Types of Tournaments : a) Knockout System b) League System c) Combination System.
3. Lay-out of Play-field and Basic Rules : a) Kabaddi b) Kho-kho c) Volleyball d) Badminton e) Football f) Hockey g) Cricket h) Track and Field Events.
4. Care and Maintenance of Sports Equipments.

#### Group B: Sports Training & Mechanics (20 Marks)

1. Meaning of Sports Training, Conditioning, Warming-up and Cooling down.
2. Components of Physical Fitness: Speed, Strength Endurance, Agility, Flexibility.
3. Training Methods: Circuit, Interval, Fartlek, Cross-country, Weight training.
4. Normal load, Crest load, Over load, Principles of Overloading.
5. Mechanical Principles Applied to Sports : Laws of Motion, Lever and its types, Equilibrium its type and laws, Center of gravity, Force and its types.

#### Group C: Exercised Physiology (30 Marks)

1. Muscular System: Various types of muscles, structure, effects of exercise, muscular contraction-eccentric, concentric stationmotor unit, isometric, isotonic, isokinetic exercises.
2. Effects of Exercise on Circulatory system, Blood pressure.
3. Effects of exercise on Respiratory system, vital capacity, oxygen debt, cardiovascular endurance.

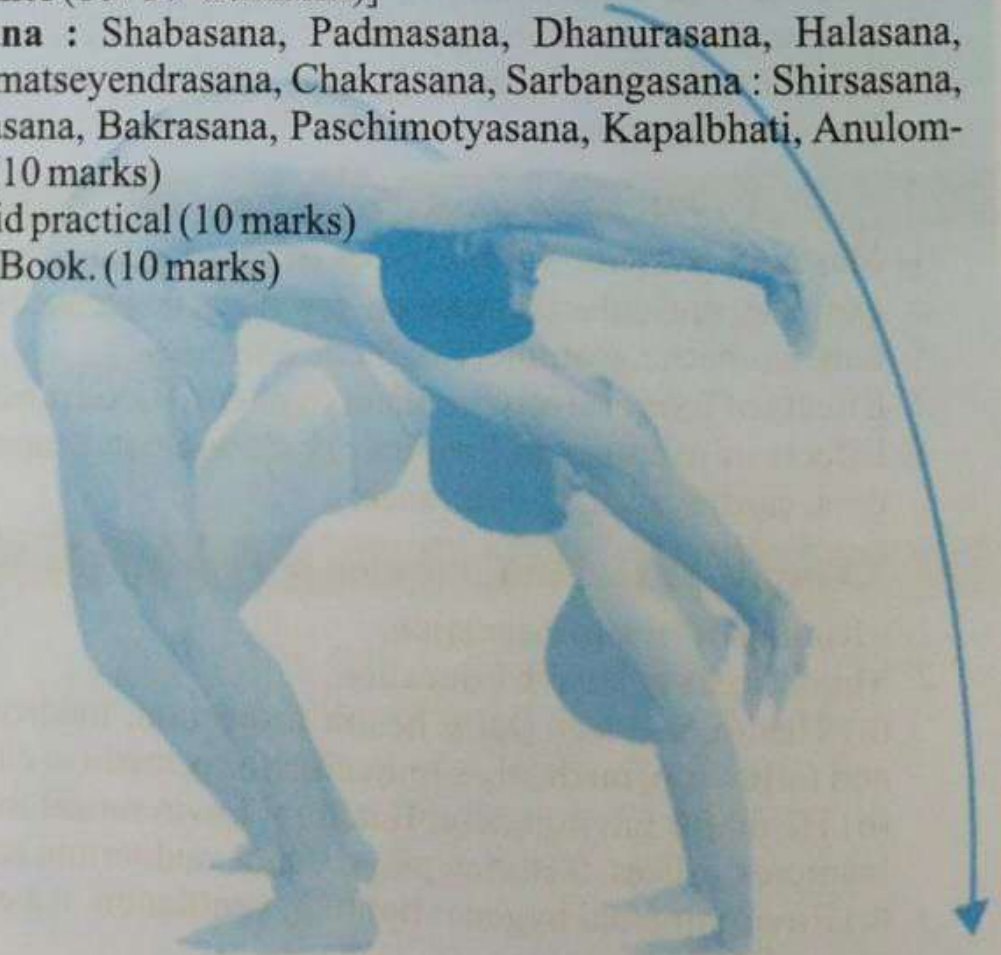
#### Group D : Health Education & First Aid (30 Marks)

1. Meaning of Health Education.
2. Major Areas of Health Education.
  - (a) Health Service: Daily health inspection, medical inspection and follow-up, medical examination form, medical clinic.
  - (b) Healthful Environment: Healthful Environment in Educational Institutes, offices, factories, playgrounds, auditorium etc.
  - (c) Environmental hygiene: lighting, ventilation, water supply and waste disposal.

3. Environmental pollution : air, water etc. and remedial measures.
4. Safety Education: Safety at home, school, college, playground, streets.
5. Prevention and control of communicable diseases: Malaria, Cholera, Common-Cold, Coughs etc.
6. Mental Health: Problems of maladjustment, Minor mental disorders, their causes and precautions.
7. First-aid management: Sprain, Muscle-pull, Dislocation, Fracture, Cramps, Shock, Minor injuries, Bleeding, Snakebites, Drowning, Electric Shock, Burns and Artificial Respiration.

### PRACTICAL (100 Marks)

1. **Track & Field** : 100 m, 200 m, 400 m, 800 m Run, Shot Put, Direct Throw, Javelin Throw, High Jump, Long Jump, Triple Jump (Men), track event, one throwing and one jumping event. (20 marks)
2. **Gymnastics** : Forward-Roll, Backward-Roll, Dive-Roll, Cartwheel, T-balance, Handstand, Handspring, Neck-Spring, Somersault-Skill and knowledge of assisting. (20 marks)
3. **Indian Games** : Kabaddi, Kho-kho. (5+5=10 marks)
4. **Ball Games** : Football, Volleyball, Cricket, Hockey, Badminton (Women)–Fundamental skills, rules and regulation. [Any two ball-games (10+10=20 marks)]
5. **Yogasana** : Shabasana, Padmasana, Dhanurasana, Halasana, Ardha-matseyendrasana, Chakrasana, Sarbangasana : Shirsasana, Mayurasana, Bakrasana, Paschimotyasana, Kapalbhati, Anulom-vilom. (10 marks)
6. First-Aid practical (10 marks)
7. Record Book. (10 marks)



# **UNIVERSITY OF CALCUTTA**

**SYLLABI**

**F  
O  
R**

**THREE-YEAR B.A HONOURS & GENERAL  
COURSES OF STUDIES**



**SOCIOLOGY**

**2010**

## **Sociology General**

**Total Marks : 400**

### **Part I (Total Marks—100)**

**Paper I : Introductory Sociology** .100- Marks

### **Part II (Total Marks—200)**

**Paper II: Sociological Thought** .100- Marks

**Paper III : Society in India** .100- Marks

### **Part III (Total Marks—100)**

**Paper IV : Social Problems in India** .100- Marks

## **Part I**

**Paper I : Introductory Sociology**

**100 Marks**

**Group A :**

**Module I :**

- (a) Nature and scope of Sociology; Sociology as a science; Place of Sociology among other social sciences.
- (b) Some basic concepts : society, community, association, institution, organization, culture and civilization, folkways and mores, custom, norm and value, conformity and deviance, role and status.

**Module II :**

- (a) Culture and Personality; Socialization : meaning, agencies and importance in society.
- (b) Social interaction : cooperation, competition, conflict, accommodation and assimilation.

**Group B :**

**Module III:**

- (a) Social groups : Definition; Types : Primary and Secondary, Formal and Informal, In-group and Out-group, Reference group.
- (b) Social stratification : meaning and characteristics; Forms : Estate, Class, Status, Power, Caste; Social Mobility : horizontal and vertical.
- (c) Institution: Definition and interrelationship among institutions.

**Module IV :**

- (a) Family : structure and functions; Nuclear and Joint/ Extended family; The modern family in India; Marriage and Kinship in India.
- (b) Social control : meaning and significance; Agencies: Religion, Education, Law and Mass Media.
- (c) Social change, Social evolution and Social progress : meaning and nature; Factors of social change : demographic, technological and cultural; Concept of Cultural Lag; Theories of social change : Marxist and Weberian.

## **Part-II**

**Paper II : Sociological Thought**

**100 Marks**

**Group A :**

**Module I:**

- (a) Transition from social-philosophical thought to sociological thought; Emergence of sociology as a new discipline.
- (b) Auguste Comte : Positivism; Law of Three Stages.

**Module II:**

- (a) Herbert Spencer : Organic analogy; Theory of social evolution.
- (b) Emile Durkheim : Division of Labour; Suicide; Religion.

**Group B :**

**Module III:**

- (a) Karl Marx : Dialectics; Historical Materialism; Class and Class Struggle.
- (b) Max Weber : Protestant Ethic and the Spirit of Capitalism; Typology of Authority with special reference to Bureaucracy.

**Module IV :**

- (a) Development of sociological thought in India –A brief account.
- (b) Approaches to the study of Indian society : Indological, Historical, and Dialectical.

**Paper III : Society in India**

**100 Marks**

**Group A :**

**Module I :**

- (a) Society in pre-British India : Landownership pattern; Self-sufficient village economy; and the Jajmani system.
- (b) Impact of British rule on Indian society: commercialization of agriculture, growth of rural poverty and indebtedness, rise of new social classes.

**Module II :**

- (a) Modern India : symbol of unity and diversity; Problems of national integration.
- (b) Changing scenario of Marriage and Family : Impact of post-independence social legislations.
- (c) Changing status of women.

**Group B :**

**Module III:**

- (a) Caste system; social mobility in the caste system : role of Sanskritization; Caste dynamics; caste and class.
- (b) Critical assessment of land reforms in India with special reference to West Bengal.

**Module IV :**

- (a) Rural development in India : Role of Panchayati Raj system with special reference to West Bengal.
- (b) Pattern of urbanization in India : characteristic features and social effect.

**Part III**

**Paper IV : Social Problems in India**

**100 Marks**

**Group A :**

**Module I :**

- (a) Concepts of social disorganization and social problem.
- (b) Population problem; Poverty in rural and urban areas

**Module II :**

- (a) Child labour; Problems of the youth; Old age problem.
- (b) Violence against women; Women and inequality in education and work place.

# UNIVERSITY OF CALCUTTA



Syllabi for

## **Three-year B.Com. Honours and General Degree Courses**

**Under 1+1+1 System of Examination**

*Introduced from the Academic Session 2010-11*



## B.Com. Honours & General Course Curricula / Structure

### A. B.Com. Honours in ACCOUNTING & FINANCE

#### 1<sup>ST</sup>Year

Paper	Subject	Marks
1.1Chg	<b>Language</b>	100
	<i>Major Indian Language -- 50 marks</i>	
	<i>Communicative English -- 50 marks</i>	
1.2Chg	Financial Accounting I	100
1.3Chg	Business Regulatory Framework	100
1.4Chg	Principles & Practice of Management & Business Communication (50+50)	100
1.5Chg	Economics I	100
1.6Chg	Business Mathematics & Statistics	100
	<b>Total</b>	<b>600</b>

#### 2<sup>ND</sup>Year

Paper	Subject	Marks
2.1Chg	Information Technology & Its Application in Business (Theory -50 marks + Practical -50 marks)	100
2.2Chg	Principles of Marketing* (50) & e-Commerce (50)	100
2.3Ch	Economics II & Advanced Business Mathematics	100
2.4Ch	Financial Accounting II	100
2.5Ch	Direct & Indirect Taxation	100
2.6Ch	Cost & Management Accounting	100
	<b>Total</b>	<b>600</b>

#### 3<sup>RD</sup>Year

Paper	Subject	Marks
3.1HA	Financial Accounting III	100
3.2HA	Auditing	100
3.3HA	Indian Financial System and Financial Market Operations	100
3.4HA	Financial Management	100
3.5HA	Project Work (Written 50) + (Viva-voce 50)	100
3.6Chg	Environmental Studies	100
	<b>Total</b>	<b>600</b>
	<b>GRAND TOTAL</b>	<b>1800</b>

**UNIVERSITY OF CALCUTTA**  
**Syllabus for 3-Year B.B.A. (Honours) Course**  
**Total Marks : 2000 (600 + 700 + 700)**

**Part I :**

6 core papers of 100 marks each viz.:

- Paper 1 English Language and Business Communication (50+50)
- Paper 2 Business Economics : Macro & Micro, Econs & Development Economics (50+50)
- Paper 3 Business Mathematics and Statistics (50+50)
- Paper 4 Business Law and Taxation (50+50)
- Paper 5 Principal of Accountancy and Auditing (50+50)
- Paper 6 Computer Fundamentals and Applications Theory & Practical (50+50)

**Part II :**

6 core papers of 100 marks each + one term paper (100) viz. :

- Paper 7 Principles of Management and Organizational Behaviour (50+50)
- Paper 8 Human Resource Management, Business Ethics and Environment (50+50)
- Paper 9 Production Management and Materials Management (50+50)
- Paper 10 Marketing and International Business (50+50)
- Paper 11 Operation Research, Management Information System and Modern Office Management (50+50)
- Paper 12 Cost and Management Accounting (50+50)
- Paper 13 Term Paper and Presentation (50+50)

**Part III :**

4 Specialization paper of 100 marks each +1 Project in specialization area (100 marks) + Computer Applications (100 marks) and Comprehensive Viva (100 marks)

**Uniform Curriculum Structure  
for  
Two-Year B.Ed. Programme  
in West Bengal**

**following  
NCTE Regulations, 2014**

*Examined and Recommended*

*(S) Choudhary*

*28/7/2015*

*Prof S.K. Yadav*

*Former Head, Dept of Teacher Education,  
NCERT, New Delhi  
& presently Academic Council  
in NCTE New Delhi*

*Prepared by*

**The Curriculum Committee**

*Constituted by the*

**HIGHER EDUCATION DEPARTMENT**

**Government of West Bengal**

**Bikash Bhavan, Salt Lake, Kolkata - 700091**

*Seen &  
Recommended  
28/7/15  
(S Choudhary)  
Academic Council  
NCTE*

**CURRICULUM STRUCTURE FOR  
TWO-YEAR TEACHER EDUCATION  
PROGRAMMES  
(B.ED., M.ED., B.P.ED. &M.P.ED.)  
IN WEST BENGAL**

**FOLLOWING  
NCTE REGULATIONS, 2014**

**Prepared by the Curriculum Committee  
Constituted by the**

**Higher Education Department  
Government of West Bengal  
BikashBhavan, Salt Lake, Kolkata – 700091.**

**CURRICULUM STRUCTURE FOR TWO-  
YEAR B.Ed. PROGRAMME  
IN WEST BENGAL  
FOLLOWING  
NCTE REGULATIONS, 2014**

**Prepared by the Curriculum Committee  
Constituted by the**

**Higher Education Department  
Government of West Bengal  
BikashBhavan, Salt Lake, Kolkata – 700091**

**REGULATIONS FOR 2 YEAR B.Ed. PROGRAMME IN WEST BENGAL  
FOLLOWING NCTE REGULATIONS, 2014**

In exercise of the powers conferred by the Government of West Bengal (Memo No.329-Edn(CS)/EE/10M-16/15 dated 6<sup>th</sup> April, 2015), the Curriculum Committee hereby makes the following Regulations:

These regulations shall be called the Regulations (for the B.Ed. Programme), with effect from 2015. They shall apply to every candidate applying for admission, registration, conduct and conferment of the B.Ed. degree within the jurisdiction of this State i.e. West Bengal.

Admissions, registrations, and conferment of B.Ed. Degree shall be guided by these regulations.

**1. Course Structure:**

The duration of this program is two academic years consisting of four semesters. The academic year shall commence from July 1<sup>st</sup> of every year. Each semester is roughly of 6 months duration including regular classes, assignments, practice teaching, and examinations. The program structure is as follows:

**B.ED ACADEMIC CALENDAR**

Semester	Duration (Tentative)	Activities
<b>I</b>	<b>1<sup>st</sup> July to 31<sup>st</sup> December (1<sup>st</sup> Year)</b>	
	❖ 1 <sup>st</sup> July to 30 <sup>th</sup> November	Theory Class, Engagement with Field and EPC 1
	❖ 1 <sup>st</sup> December to 15 <sup>th</sup> December	<b>Examination:</b> Theory, Engagement with Field and EPC 1 Practical
	❖ 16 <sup>th</sup> December to 31 <sup>st</sup> December	<b>Evaluation and Publication of Result (Semester Break for the Students)</b>
<b>II</b>	<b>1<sup>st</sup> January to 30<sup>th</sup> June (1<sup>st</sup> Year)</b>	
	❖ 1 <sup>st</sup> January to 15 <sup>th</sup> April	Theory Class, Engagement with Field and EPC 2
	❖ 16 <sup>th</sup> April to 15 <sup>th</sup> May	Teaching Internship (No External Evaluation)
	❖ 16 <sup>th</sup> May to 31 <sup>st</sup> May	Sharing the Experience with the Teacher Educators and engage with other Co-curricular activities
	❖ 1 <sup>st</sup> June to 15 <sup>th</sup> June	<b>Examination:</b> Theory, Engagement with Field and EPC 2 Practical
	❖ 16 <sup>th</sup> June to 30 <sup>th</sup> June	<b>Evaluation and Publication of Result (Semester Break for the Students)</b>
<b>III</b>	<b>1<sup>st</sup> July to 31<sup>st</sup> December (2<sup>nd</sup> Year)</b>	
	❖ 1 <sup>st</sup> July to 30 <sup>th</sup> July	Theory Class, Orientation in College for Pedagogy files of School subjects and Internship Teaching Skills.
	❖ 1 <sup>st</sup> August to 30 <sup>th</sup> November	Four months school Internship
	❖ 1 <sup>st</sup> December to 15 <sup>th</sup> December	Evaluation of School Internship
	❖ 16 <sup>th</sup> December to 31 <sup>st</sup> December	<b>Evaluation and Publication of Result (Semester Break for the Students)</b>
<b>IV</b>	<b>1<sup>st</sup> January to 30<sup>th</sup> June (2<sup>nd</sup> Year)</b>	
	❖ 1 <sup>st</sup> January to 31 <sup>st</sup> May	Theory Class including Optional course, EPC 3 and EPC 4, Engagement with Field
	❖ 1 <sup>st</sup> June to 15 <sup>th</sup> June	<b>Examination:</b> Theory, Engagement with Field and EPC 3 & 4 Practical
	❖ 16 <sup>th</sup> June to 30 <sup>th</sup> June	<b>Evaluation and Publication of Result (Semester Break for the Students)</b>

**2. Admission criteria for B.Ed. Programme:**

Any candidate who has obtained **50% marks** in Bachelor Degree /Master's Degree in Science/Social Science /Humanities or Bachelor's in Engineering or Technology with specialization in Science and Mathematics with **55% marks** are eligible for admission in B.Ed Programme. For admission, the Institution follows the prevalent rules as prescribed by The NCTE Regulations, 2014 (published in The Gazette of India: Extraordinary, Part -III, Sec-4, dated 01.12.2014). Mode of

admission is based on the total score obtained from his/her Secondary, H.S, Graduation and Post-Graduation.

Relaxation of the percentage of marks for reserved category candidate will be as per State Govt. rules. Intake capacity is as per NCTE, State Govt. & other statutory bodies.

### 3. Registration:

As per University guidelines.

#### UNIFORM CURRICULUM STRUCTURE AND EXAMINATION PATTERN FOR 2 YEAR B.Ed. PROGRAMME IN WEST BENGAL FOLLOWING NCTE REGULATIONS, 2014

COURSE & CODE	COURSE NAME	MARKS			Class Teaching Hour
		Theory	Engagements with the Field	Marks(Credit)	
<b>SEMESTER-I</b>					
Course-I (1.1.1)	Childhood and Growing Up (1 <sup>st</sup> &2 <sup>nd</sup> half)	50+50	25	100+25 (4+1)	64+32
Course-II (1.1.2)	Contemporary India and Education (1 <sup>st</sup> &2 <sup>nd</sup> half)	50+50	25	100+25 (4+1)	64+32
Course-IV (1.1.4)	Language across the Curriculum	50	50	50+50 (2+2)	32+64
Course-V (1.1.5)	Understanding Discipline and Subjects	50	50	50+50 (2+2)	32+64
CourseEPC-1 (1.1EPC1)	Reading and Reflecting on Texts	25	25	25+25 (1+1)	16+32
TOTAL		325	175	500(13+7)	208+224
<b>Full Marks: 500 (Credit : 20)</b>					
<b>SEMESTER-II</b>					
Course-III (1.2.3)	Learning and Teaching (1 <sup>st</sup> & 2 <sup>nd</sup> half)	50+50	25	100+25 (4+1)	64+32
Course-VII-(A) (1.2.7A)	Pedagogy of a School Subject Part-I	50	50	50+50 (2+2)	32+64
Course-VIII-(A) (1.2.8A)	Knowledge and Curriculum- Part-I	50	25	50+25 (2+1)	32+32
Course-IX (1.2.9)	Assessment for Learning (1 <sup>st</sup> & 2 <sup>nd</sup> half)	50+50	50	100+50 (4+2)	64+64
CourseEPC-2 (1.2EPC2)	Drama and Arts in Education	25	25	25+25 (1+1)	16+32
TOTAL		325	175	500(13+7)	208+224
<b>Full Marks: 500 (Credit : 20)</b>					
<b>SEMESTER-III</b>					
Course-VII-(B) (1.3.7B)	Pedagogy of a School Subject- Part-II	50	100	50+100 (2+4)	32+128
<b>School Internship</b>			350	350 (14)	448
TOTAL		50	450	500(2+18)	32+576
<b>Full Marks: 500 (Credit : 20)</b>					
<b>SEMESTER-IV</b>					
Course-VI (1.4.6)	Gender, School and Society	50	25	50+25 (2+1)	32+32
Course-VIII(B)(1.4.8B)	Knowledge and Curriculum- Part-II	50	25	50+25 (2+1)	32+32
Course-X (1.4.10)	Creating an Inclusive School	50	25	50+25 (2+1)	32+32
Course-XI (1.4.11) Optional	Vocational/Work Education	50	25	50+25 (2+1)	32+32
Course-XI (1.4.11) Optional	Health and Physical Education	50	25	50+25 (2+1)	32+32
Course-XI (1.4.11) Optional	Peace Education	50	25	50+25 (2+1)	32+32
Course-XI (1.4.11) Optional	Guidance and Counselling	50	25	50+25 (2+1)	32+32
Course-XI (1.4.11) Optional	Environmental and Population Education	50	25	50+25 (2+1)	32+32
Course-XI (1.4.11) Optional	Yoga Education	50	25	50+25 (2+1)	32+32
CourseEPC-3 (1.4EPC3)	Critical Understanding of ICT	50	50	50+50 (2+2)	32+64
CourseEPC-4(1.4EPC4)	Understanding the Self	50	50	50+50 (2+2)	32+64
TOTAL		300	200	500(12+8)	192+256
<b>Full Marks: 500 (Credit : 20)</b>					
<b>Total Marks: 2000 (Credit : 80)</b>					

Note:

a) \*Optional Courses can be from among the following-Vocational/Work Education, Health and Physical Education, Peace Education, Guidance and Counselling, and Environmental and Population Education, Yoga Education.

## UNIVERSITY OF CALCUTTA

Full Marks : 50

No. of Lectures : 40

### 1. Fundamentals of Environment

Definition and basic concepts, needs for environment studies, changes in environment, natural and man-made disasters — nature vs. nurture land use patterns, economic development and environment — heredity and environment, environmental hazards and risks.

### 2. Nature and Natural Processes

Components of the Earth, natural cycles.

### 3. Ecosystem

Ecology and concept of ecosystem, ecosystems of the world — human society and environment, environmental interactions with plants and animals, forest ecology, importance of forests, conservation of forest.

### 4. Population and Environment

Human population distribution, population growth and natural resources — sex education and population education, impact of economic development on environment in India in particular.

### 5. Land and Water Resources of the Earth

Land use for various purposes, water requirement for human activities.

### 6. Air Pollution

Roles of individual gases, "Green House" gases, ozone hole and global warming, air pollution effects, noise and odour pollution.

### 7. Energy Source

Conventional and non-conventional sources of energy.

### 8. Environment and Public Health

Major water, food and air-borne diseases of man — civic sense and environment and personal hygiene issues, health hazards in agricultural pest control, heavy metal and persistent organic pollutant toxicity

### 9. Waste Management

Treatment of waste water, solid waste management, management of persistent organic pollutants, air-pollution management.

### 10. Environmental Policies

History of environmental institutions and instruments, environmental policies at the national and state levels, human rights issues relating to environment, women and environment, Green Bench, national environment-related movements.

## UNIVERSITY OF KALYANI

Full Marks : 50

No. of Lectures : 50

### 1. Components of Environment

Hydrosphere, Lithosphere, Atmosphere and Biosphere – definitions with examples; Interaction of man and environment; Environmental studies as a multidisciplinary subject

2. (a) **Physical Environment** : Earth's atmosphere, effect of Sun on climatic conditions and its changes





**UNIVERSITY OF CALCUTTA**  
**Notification No. CSR/25/11**

It is notified for the general information of all concerned that the Pro-Vice-Chancellor for Academic Affairs (acting as the Vice-Chancellor for the present) had, by an order dated 31.05.2011, been pleased to approve the **revision of Syllabi for the subjects Compulsory English (for B.A. & B.Sc. courses of studies) and Alternative English (for B.A., B.Sc. & B.Com. courses of studies)** under this University, as laid down in the accompanying pamphlet.

The above shall be effective from the Academic session 2011-2012.

SENATE HOUSE  
KOLKATA-700073  
The 2<sup>nd</sup> June, 2011

Sd/-  
(Prof. Basab Chaudhuri)  
Registrar

# UNIVERSITY OF CALCUTTA

Syllabus for B.A./ BSc. Course of Studies in Compulsory English (ENGC)

effective from 2011-12

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Full Marks-50

Prescribed book:

***Golden Leaves: A Textbook for College students***

(Published by Macmillan in collaboration with the University of Calcutta)

## SEEN

1. R.K.NARAYAN, "Out of Business"
2. RUSKIN BOND, "The Thief's Story"
3. S.RADHAKRISHNAN, "Intuition and Genius"
4. WILLIAM WORDSWORTH, "Lucy Gray"
5. RABINDRANATH TAGORE, "Gitanjali:18"

Questions:

2 questions of 5 marks each (5x2=10)

5 questions of 2 marks each (2x5=10)

5 questions of 1 mark each (1x5=5)

## UNSEEN

1. Writing Formal and Informal Letters OR Paragraph writing OR Writing CVs and Job Applications – 10 Marks
2. Comprehension Test – 2 questions of 5 marks each ( 5x2=10)
3. Grammar ( from Comprehension test passage) - 5 questions of 1 mark each (1x5=5)

# UNIVERSITY OF CALCUTTA

Syllabus for B.A./ BSc./ B.Com. Course of Studies in Alternative English (ENGM)  
effective from 2011-12

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Full Marks-50

Prescribed book:

***Golden Leaves: A Textbook for College students***

(Published by Macmillan in collaboration with the University of Calcutta)

## SEEN

1. O.HENRY, "The Last Leaf"
2. WILLIAM SOMERSET MAUGHAM, "The Man with the Scar"
3. RABINDRA NATH TAGORE, "The Artist" / "Ram Mohan Roy"
4. NISSIM EZEKIEL, "In the Country Cottage"
5. PURUSHOTTAM LAL, "Life"

Questions:

2 questions of 5 marks each (5x2=10)

5 questions of 2 marks each (2x5=10)

5 questions of 1 mark each (1x5=5)

## UNSEEN

1. Writing Formal and Informal Letters OR Paragraph writing OR Writing CVs and Job Applications – 10 Marks
2. Comprehension Test – 2 questions of 5 marks each (5x2=10)
3. Grammar (from Comprehension test passage) - 5 questions of 1 mark each (1x5=5).

## MIL

### 50 अंक

#### निबंध :

क्या निराश हुआ जाए – हजारी प्रसाद द्विवेदी, घीसा – महादेवी वर्मा, पर्यावरण संरक्षण – शुकदेव प्रसाद  
कविताएँ

- (i) पेशोला की प्रतिध्वनि – जयशंकर प्रसाद
- (ii) पैतृक संपत्ति (जब बाप मरा...) – केदारनाथ अग्रवाल
- (iii) उनको प्रणाम – नागार्जुन
- (iv) हो गई है पीर पर्वत सी – दुष्यंत कुमार
- (v) धार्मिक दंगों की राजनीति – शमशेर बहादुर सिंह

#### कहानियाँ

1. मंत्र – प्रेमचंद
2. भोलाराम का जीव – हरिशंकर परसाई
3. त्रिशंकु – मन्नू भंडारी

#### पारिभाषिक शब्दावली-100 शब्द

1. Accountability	जवाबदेही
2. Ad-hoc	तदर्थ
3. Adjournment	स्थगन
4. Adjustment	समायोजन
5. Agenda	कार्यसूची
6. Agreement	अनुबंध
7. Allotment	आवंटन
8. Allowance	भत्ता
9. Allowance	अनुमोदन

10. Authority	प्राधिकरण
11. Autonomous	स्वायत्त
12. Bonafide	वास्तविक
13. Bye-law	उप-विधि
14. Charge	प्रभार
15. Circular	परिपत्र
16. Compension	क्षतिपूर्ति
17. Confirmation	पुष्टि
18. Consent	सहमति
19. Contract	संविदा
20. Discretion	विवेक
21. Enclosure	संलग्नक
22. Ex-Office	पदेन
23. Honorarium	मानदेय
24. Infrastructure	आधारभूत संरचना
25. Memorandum	ज्ञापन
26. Modus operandi	कार्य-प्रणाली
27. Notification	अधिसूचना
28. Officiating	स्थानापन्न
29. Postponement	स्थगन
30. Proceedings	कार्यवाही
31. Record	अभिलेख
32. Retirement	सेवानिवृत्ति
33. Stagnation	गतिरोध
34. Verification	सत्यापन
35. Account	लेखा/खाता
36. Accountant	लेखाकार

37. Adjustment	समायोजन
38. At-par	सममूल्य पर
39. Audio-Visual display	दृश्य-श्रव्य प्रदर्श
40. Audit	लेखा-परीक्षा
41. Audition	स्वर/ध्वनि परीक्षण
42. Auditorium	प्रेक्षागृह
43. Authentic	प्रामाणिक
44. Back dated	पूर्व-दिनांकित
45. Bail	जमानत
46. Bank-Guaranty	बैंक प्रत्याभूति
47. Bearer	वाहक
48. Cash Balance	रोकड़ बाकी
49. Clearing	समाशोधन
50. Commission	दलाली
51. Confiscation	अधिहरण
52. Convertible	परिवर्तनीय
53. Currency	मुद्रा
54. Current	चालू खाता
55. Divident	लाभांश
56. Documentation	प्रलेखन
57. Endorsement	बंदोबस्ती
58. Exchange	विनिमय
59. Finance	वित्त
60. Fixed Deposit	सावधि जमा
61. Forfeiture	जब्ती
62. Guaranty	प्रत्याभूति
63. Indemnity Bond	क्षतिपूर्ति बंध

64. Insolvency	दिवाला
65. Investment	निवेश
66. Lease	पट्टा
67. Long term credit	दीर्घावधि उधार
68. Lumpsum	एकमुश्त
69. Mobilisation	संग्रहण
70. Moratorium	भुगतान-स्थगन
71. Mortgage	गिरवी
72. Output	उत्पादन
73. Outstanding	बकाया
74. Payable	देय
75. Payment	भुगतान
76. Progressive-note	रुक्का/हुण्डी
77. Realization	वसूली
78. Recommendation	संस्तुति
79. Rectification	परिशोधन
80. Recurring	आवर्ती
81. Redeemable	प्रतिदेय
82. Renewal	नवीकरण
83. Revenue	राजस्व
84. Sensex	शेयर सूचकांक
85. Security	प्रतिभूति
86. Short-term credit	अल्पावधि उधार
87. Squeeze	अधिसंकुचन
88. Sur-charge	अधिभार
89. Suspense Account	उचंत लेखा
90. Trade Mark	मार्का

91. Transaction	लेनदेन
92. Transfer	अंतरण
93. Turn over	पण्यावर्त
94. Undervaluation	अवमूल्यन
95. Validity	वैधता
96. Vault	तहखाना
97. Warranty	आश्वस्ति
98. Withdrawal	आहरण
99. Working Capital	कार्यशील पूंजी
100. Winding up	समेटना

प्रतिवेदन / आवेदन पत्र लेखन

प्रमुख साहित्यकारों की तस्वीर और उनका संक्षिप्त परिचय

अंक विभाजन – पठित गद्यांश ( निबंध) और उनपर प्रश्न- 15 अंक

अथवा

निबंध व कहानियों पर तीन प्रश्न- 5 x 3= 15 अंक

आवेदन / प्रतिवेदन पर -10 अंक

हिन्दी रूप पर – 1x 5= 5 अंक

कविताओं पर एक प्रश्न -10 अंक

कहानियों पर एक प्रश्न-10 अंक

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ত্রি-বার্ষিক স্নাতক পর্যায়ে পাঠ্যসূচি

আধুনিক ভারতীয় ভাষা

বাংলা

পূর্ণমান - ৫০

ক। ভাষা

মডিউল : ১ ১. বোধ পরীক্ষণ ১৫

নিম্নলিখিত প্রবন্ধসমূহ পাঠ্য :

- i) বঙ্গদেশের কৃষক — স্বর্গমন্ত্র চন্দ্রোপাধ্যায়
- ii) হৃদয়ী সমাজ — রবীন্দ্রনাথ ঠাকুর
- iii) বাসাল্য ভাষা — হুম্মী ভিবেকনন্দ
- iv) শির প্রসঙ্গ — মন্মথলাল বসু
- v) অপকিঙ্কান — রাজশেখর বসু
- vi) স্বীকৃতির অবনতি — বেণম রোকেয়া

মডিউল : ২ প্রতিবেদন রচনা (সংবাদপত্রে প্রকাশের উপযোগী করে কোন ঘটনার প্রতিবেদনের খসড়া রচনা) ১০

অথবা

পুনর্নির্মাণ (সংবাদপত্রে প্রকাশিত কোন প্রতিবেদন থেকে নিজস্ব অভিমত প্রকাশ করবেন ৫০ শব্দ)

মডিউল : ৩ পরিভাষা (ক.বি. প্রকাশিত 'ভাষাপাঠ সম্বন্ধে'-এ নির্ধারিত ২৫০ টি) ৫

খ। সাহিত্য

মডিউল : ৪ কবিতা (কাব্য সৌন্দর্য বিশ্লেষণ) ১০

রবীন্দ্রনাথ ঠাকুরের 'নৈবেদ্য'-র অন্তর্গত নিম্নলিখিত কবিতাসমূহ পাঠ্য :

- i) শতাব্দীর সূর্য অজি রক্তমেঘ-ছায়ে... (৬৪ নং)
- ii) স্বর্গের সমাপ্তি অশ্বমেধে... (৬৪ নং)
- iii) তোমার ন্যায়ের মত স্রুতকোর করে... (৭০ নং)
- iv) ভিত্ত বেথা ভয়শূন্য উক ফেরা শির... (৭২ নং)

মডিউল : ৫ ছোটগল্প ১০

রবীন্দ্রনাথ ঠাকুরের নিম্নলিখিত গল্পগুলি পাঠ্য :

- i) ছুটি ii) পোস্টমাস্টার iii) জীবিত ও মৃত iv) ধবসে