



St. Xavier's Sr. Sec. School

Delhi-54

Std. 12 - Syllabus 2016-17

ENGLISH

Term 1

Section - A (Reading) - 30 marks.

- 2 passages for Reading Comprehension (one literary and one discursive) (10+12=22)
- 1 passage for note making and summarizing. (5+3=8 marks) **(Unit Test)**

Section - B (Writing) - 30 marks

- Short Writing Skills (4 marks) **(Unit Test)**
Notice, Poster and Advertisement
- Letter Writing (6 marks)
Business letters, letter of enquiry, placing orders, job application, letter of complaint.
- 3 & 4 Composition (10 marks)
Article, Speech or Debate

Section - C (Literature) - 40 marks

Flamingo

- | | |
|-------------------|---|
| Prose : Chapter 5 | Indigo (Unit Test) |
| Chapter 3 | Deep Water |
| Chapter 4 | Rattrap |
| Chapter 1 | The Last Lesson |
| Poetry : Poetry 6 | Aunt Jennifer's Tigers (Unit Test) |
| Poetry 4 | A Thing of Beauty (Unit Test) |
| Poetry 2 | An Elementary School Classroom in a Slum |

Vistas

- | | |
|-------------------|-------------------------|
| Prose : Chapter 4 | Enemy |
| Chapter 6 | On The Face Of It |
| Chapter 5 | Should Wizard Hit Mommy |

Novel : The Invisible Man (Chapters 1 to 12)

Term 2

Section - A (Reading) - 30 marks

- 2 passages for Reading Comprehension (one literary and one discursive) (10+12=22 marks) **(Unit Test)**
- 1 passage for note making and summarizing. (5+3=8 marks)

Section - B (Writing) - 30 marks

- Short Writing Skills (4 marks) **(Unit Test)**
Formal and Informal Invitations and Replies
Advertisements (Classified and unclassified)
Revision of first term writing skills.
- Letter Writing (6 marks)
Letters to the Editor, Asking for and giving information
- Composition (10 marks)
Article, Speech or Debate
- Composition (10 marks)
Article, Speech or Debate

Section - C (Literature) - 40 marks

Flamingo

- | | |
|-------------------|---|
| Prose : Chapter 2 | Lost Spring (Unit Test) |
| Chapter 8 | Going Places |
| Poetry: Poetry 1 | My Mother at Sixty Six (Unit Test) |
| Poetry 3 | Keeping Quiet (Unit Test) |



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Vistas

Prose : Chapter 2 Tiger King **(Unit Test)**
Chapter 8 Memories of Childhood
Chapter 7 Evans Tries an O'Level

Novel : The Invisible Man (Chapters 13 to 28)

MATHEMATICS

Term 1	Chapter 2	Inverse Trigonometric Functions (Unit Test)
	Chapter 5	Continuity and Differentiability (Unit Test)
	Chapter 6	Application of Derivatives
	Chapter 3	Matrices
	Chapter 4	Determinants
	Chapter 7	Integrals (Indefinite)
	Term 2	Chapter 7
Chapter 8		Application of Integration
Chapter 9		Differential Equation
Chapter 10		Vector Algebra (Unit Test)
Chapter 11		3 Dimensional Geometry (Unit Test)
Chapter 12		Linear Programming
Chapter 13		Probability
Chapter 1		Relations and Functions

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PHYSICS

Term 1	Unit - I	Electrostatics (Unit Test)
	Unit - II	Current Electricity
	Unit - III	Magnetic Effect of Current and Magnetism
	Unit - IV	Electromagnetic Induction and Alternating Current
	Unit - V	Electromagnetic Waves
Term 2	Unit - VI	Optics (Unit Test)
	Unit - VII	Dual Nature of Matter and Radiation
	Unit - VIII	Atoms and Nuclei
	Unit - IX	Electronic Devices
	Unit - X	Communication Systems

CHEMISTRY

Term 1	Unit I	Solid State (8 marks) (Unit Test)
	Unit II	Solutions (9 marks)
	Unit III	Electrochemistry (9 marks) (Unit Test)
	Unit IV	Chemical Kinetics (9 marks)
	Unit V	Surface Chemistry (6 marks)
	Unit VI	General Principles and Processes (5 marks)
	Unit VII	p-block Elements (8 marks)
	Unit VIII	d and f Block (6 marks)
	Unit IX	Coordination Compounds (6 marks)
	Unit XVI	Chemistry in Everyday Life (4 marks)
Term 2	Unit X	Haloalkanes and Haloarenes



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Unit XI	Alcohols, Phenols, Ethers
Unit XII	Aldehydes, Ketones, Acids
Unit XIII	Organic Compounds Containing Nitrogen
Unit XV	Polymers
Unit XIV	Bio Molecules

Pre-Board Practicals / Final Board Practicals (Total marks : 30)

Volumetric analysis	8 marks
Salt analysis	8 marks
Content based experiment	6 marks
Project work	4 marks
Class record and viva	4 marks

BIOLOGY

Term 1

Unit VI	REPRODUCTION
Chapter 1	Reproduction in Organisms (Unit Test)
Chapter 2	Sexual Reproduction in Flowering Plants (Unit Test)
Chapter 3	Human Reproduction
Chapter 4	Reproductive Health
Unit VII	GENETICS AND EVOLUTION
Chapter 5	Principles of Inheritance and Variation
Chapter 6	Molecular Basis of Inheritance
Chapter 7	Evolution
Unit VIII	BIOLOGY IN HUMAN WELFARE
Chapter 8	Human Health and Diseases
Chapter 9	Strategies for Enhancement in Food Production
Chapter 10	Microbes in Human Welfare

Term 2

Unit IX	BIOTECHNOLOGY
Chapter 11	Biotechnology: Principles and Processes
Chapter 12	Biotechnology and Its Applications (Unit Test)
Unit X	ECOLOGY
Chapter 13	Organisms and Populations
Chapter 14	Ecosystem (Unit Test)
Chapter 15	Biodiversity and Conservation
Chapter 16	Environmental Issues

ECONOMICS

Term 1

PART – A	INTRODUCTORY MICRO ECONOMICS
Unit 1	Introduction (Unit Test)
Unit 2	Consumer Behaviour and Demand (Unit Test)
Unit 3	Producer Behaviour and Supply
Unit 4	Forms of Market and Price Determination with simple applications.

Term 2

PART – B	INTRODUCTORY MACRO ECONOMICS
Unit 5	National Income and Related Aggregates
PART – B	INTRODUCTORY MACRO ECONOMICS
Unit 6	Money and Banking
Unit 7	Determination of Income and Employment
Unit 8	Government Budget and the Economy
Unit 9	Balance of Payments



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BUSINESS STUDIES

Term 1	PART – A	PRINCIPLES AND FUNCTIONS OF MANAGEMENT
	Unit 1	Nature and Significance of Management (Unit Test)
	Unit 2	Principles of Management (Unit Test)
	Unit 3	Business Environment (Unit Test)
	Unit 4	Planning
	Unit 5	Organising
	Unit 6	Staffing
Term 2	Unit 7	Directing (Unit Test)
	Unit 8	Controlling (Unit Test)
	PART – B	BUSINESS FINANCE AND MARKETING
	Unit 9	Financial Management (Unit Test)
	Unit 10	Financial Market
	Unit 11	Marketing Management
	Unit 12	Consumer Protection

Project will be given after Half Yearly Examination and it is to be completed by November 30, 2016.

ACCOUNTANCY

Term 1	Part A – Partnership Firms and Companies.
	Unit I Accounting for Partnership Firms
	a) Nature of Partnership, Partnership Deed, meaning and importance.
	b) Fixed and Fluctuating capital accounts; Profit and loss appropriation account; Partners capital accounts; Interest on capital; Interest on drawings; Division of profit; Guarantee of profit; Past adjustments. (Unit Test)
	Unit II Reconstitution of Partnership
	Change in Profit Sharing Ratio among the existing partners; Sacrificing ratio and gaining ratio; Method of calculating goodwill; Average profit method; Super profit method; Capitalisation method; Meaning of goodwill; Factors affecting goodwill;
	Accounting treatment of goodwill. (Unit Test)
	Admission of a partner; Retirement of a partner; Death of a partner.
	Dissolution of a partnership firm; Meaning; Method of Dissolution; Practical problems.
Term 2	Unit III Accounting for Share Capital (Unit Test)
	Meaning; Types and classes of shares; Meaning of capital and its types.
	Unit IV Accounting for Debentures (Unit Test)
	Part B – Analysis of Financial Statements
	Unit V Analysis of Financial Statements
	a) Financial Statements of a company; New Balance Sheet of a company in the prescribed form with respective changes.
	b) Financial Statement Analysis – meaning, significance and purpose, limitations.
	c) Tools for Financial Analysis : Comparative Statements, common size Balance Sheet.
	d) Accounting Ratios – Meaning, types and significance of Ratios.
	Unit VI Cash Flow Statement – meaning and objectives of preparing cash flow statement, adjustment related to depreciation, dividend, tax, purchase of non-current asset. (as per revised standard issued by ICAI AS-3)



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COMPUTER SCIENCE

- Term 1**
- Revision of C++ (Std. 11) **(Unit Test)**
 - Database and MYSQL **(Unit Test)**
 - Array as an argument. **(Unit Test)**
 - Memory address calculation (1D & 2D) **(Unit Test)**
 - Function Overloading
 - Structures
 - Class and Objects
 - Constructors and Destructors
 - Inheritance
 - Communication and Network Concepts
- Term 2**
- Boolean Algebra
 - Data File Handling
 - Pointers
 - Linked List, Stacks and Queues
- Pre-Board**
- Complete Syllabus

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SYLLABUS 2016-17 (Std.

INFORMATICS PRACTICES

- Term 1**
- MySQL
- Revision of Class 11 MySQL **(Unit Test)**
 - Select Command
 - Create Table Command
 - Alter Table Command
 - Insert, Delete and Update Command
 - Select Command Details **(Unit Test)**
 - Group by Clause
 - Multiple Row Functions
 - Joins and Cartesian Product
 - Transaction concepts in MySQL
- Net Beans
- Revision of Std. 11 Net Beans
 - Swing Controls and Related Programming
 - Radio Button Control, Check Box Control, List Box Control, Combo Box Control, Radio Button Group, Password Field, Text Area Control



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HTML Details
Networking and Open Standards

- Term 2** Net Beans
1. Flow of Control
For Loop, While Loop, Do-while Loop
 2. jTable Control
 3. Connectivity in Net Beans
- IT Applications

Pre-Board Complete syllabus of IP.

PHYSICAL EDUCATION

- Term 1**
- Unit 1 Planning in Sports **(Unit Test)**
 - Unit 2 Adventure Sports & Leadership Training **(Unit Test)**
 - Unit 3 Sports & Nutrition **(Unit Test)**
 - Unit 4 Postures
 - Unit 5 Children & Sports
 - Unit 6 Women & Sports
- Term 2**
- Unit 7 Test and Measurement in Sports **(Unit Test)**
 - Unit 8 Physiology and Sports **(Unit Test)**
 - Unit 9 Sports Medicine
 - Unit 10 Biomechanics and Sports
 - Unit 11 Psychology & Sports
 - Unit 12 Training in Sports

SUPW - Electronics

- Term 1**
1. Tuning of FM Radio
 2. Battery eliminator block diagram.
 3. Explanation of different components working like as (Transformer, Diode, Condensator etc.)
 4. Battery eliminator circuit and its explanation.
 5. Construction of battery eliminator.
 6. Testing of battery eliminator.
 7. Basic of computer hardware.
- Term 2**
1. Different faults in computers.
 2. Fault finding with the help of beeps.
 3. How to read a multimeter?
 4. Circuit of emergency light (with LED).

SUPW - Arts

- Term 1**
- Stippling Techniques
 - Modern Art
 - Composition with Pencil Shading
 - Project - Gloss Painting
 - Composition with Water Colour
 - Warli Painting
- Term 2**
- Landscape with water colour
 - Object Drawing
 - Portrait
 - Folk Art
 - Landscape with Pencil Shading



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Abstract Art

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