

SYLLABUS FOR THE SESSION 2011-2012

CLASS :XII

ENGLISH

- Text Books :** 1. Flamingo , Text book for XII (Core Course)
2. Vistas – Supplementary Reader for class XII (Core Course)

Unit Test I

- Flamingo : Prose : 1,2
Flamingo : Poem : 1,2
Note Making

Unit Test II

- Vistas : 1,2,3
Short Compositions : Notice, Advertisement, Invitations, Poster

First Quarterly Examination

- Flamingo : Prose : 1-4
Flamingo : Poem : 1-4
Vistas : 1-4
Short Compositions : Notice, Advertisement, Invitations, Poster
Report Writing
Letters : General Complaint
Application for Job, Enquiry
Article / Speech

Half Yearly Examination

- Flamingo : Prose : 1-8
Flamingo : Poem : 1-6
Vistas : 1-8
Short Composition : Notice, Advertisement , Invitations, Poster
Report Writing / Factual Description
Letters : Placing Order
Complaint of a product
Article / Speech

Pre-Board

Complete Syllabus

MATHEMATICS

Text Book :

Mathematics Textbook for Class XII-NCERT Part I and Part II

Unit Test I

- NCERT Part I : Chapters 2-5

Unit Test II

- NCERT Part I : Chapters 1,6

First Quarterly Examination

NCERT Part I	:	Chapters 1-6
NCERT Part II	:	Chapters 7,8

Half Yearly Examination

NCERT Part I	:	Chapters 1-6
NCERT Part II	:	Chapters 7-13 (Full Syllabus)
Pre-Board	:	Complete Syllabus

PHYSICS**Text Books :**

1. Physics, Textbook for Class XII – Part I,II (NCERT)
2. Comprehensive Practical Physics for Class XII (Laxmi Publications (P) Ltd.)

Unit Test I

NCERT Part I	:	Chapter 1,2,3
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Unit Test II

NCERT Part I	:	Chapter 4,5
NCERT Part II	:	Chapter 14

First Quarterly Examination

NCERT Part I	:	Chapter 1 to 8
NCERT Part II	:	Chapter 14,15

Practical

1. To determine resistance per cm of a given wire by plotting graph between V and I.
2. To find resistance of a wire and specific resistance of its material using metre bridge.
3. To verify laws of combination of resistors using metre bridge.
4. To draw I -V characteristic curve of a p.n junction in forward bias and reverse bias.
5. To compare emf of two given primary cell using potentiometer.
6. To find angle of minimum deviation for a glass prism.

Activities

1. To assemble the components of given electrical circuit.
2. To draw diagram of a given open circuit. Mark the component not connected in proper order. Correct the circuit and draw circuit diagram.
3. To identify the various electrical components.
4. To study variation in potential drop with length of the wire for steady current.

Half Yearly Examination

NCERT Part I	:	Chapter 1 to 8
NCERT Part II	:	Chapter 9 to 15

Practical

1 to 6 covered in First Quarterly Examination.

7. To find the value of v for different values of u in case of a concave mirror and to find the focal length.

8. To find focal length of convex lens.
9. To determine resistance of galvanometer by half deflection method and find its figure of merit.
10. To find focal length of concave lens using convex lens.

Activities

1 to 4 covered in First Quarterly Examination

5. To observe refraction and lateral deviation of a beam of light through glass slab.
6. To measure resistance, voltage (AC/DC) current (AC) and check continuity of circuit using multimeter.
7. Use of multimeter to i) identify base of transistor ii) distinguish between npn and pnp type transistors iii) see the unidirectional flow of current in case of a diode and LED. iv) check whether a given electronic component (e.g. diode, transistor or I.C.) is in working order.
8. To study nature and size of the image formed by i) convex lens ii) concave mirror on a screen by candle and screen method. (for different distances of the candle from lens/mirror).

Pre-Board

Theory : Complete Syllabus

Practical : Complete Syllabus

CHEMISTRY

Text Books :

1. Chemistry, Textbook for Class XII- Part I, II (NCERT)
2. Laboratory Manual in Chemistry for Class XII (NCERT)

Unit Test I

NCERT Part I : Unit 1 to 3

Unit Test II

NCERT Part II : Unit 10 and 11

First Quarterly Examination

Theory : NCERT Part 1 Unit 1 to 4,5,8
: NCERT Part 2 Unit 10 to 13, 15

Practical

- i) Volumetric Analysis
- ii) Salt Analysis
- iii) Chromatography
- iv) Functional Group Analysis
- v) Food stuffs' analysis
- vi) Preparation of Inorganic compounds
- vii) Investigatory Project
- viii) Practical Record + Viva Voce

Half Yearly Examination

Theory : NCERT Part 1 Unit 1 to 9
: NCERT Part 2 Unit 10 to 16

Practical

- i) First Quarterly Syllabus plus
- ii) Chemical Kinetics Experiment

iii) Preparation of Organic Compounds.

Pre-Board

Theory : Complete Syllabus
Practical : Complete Syllabus

BIOLOGY

Text Book :

1. Biology, Textbook for Class XII (NCERT)
2. Biology, Laboratory Manual for Class XII
(Arya Publication by S.C. Maheshwari)

Unit Test I

NCERT : Chapter 1-4

Unit Test II

NCERT : Chapter 5-7

First Quarterly Examination

NCERT : Chapter 1-8, Chapter 11,12

Practicals

1. Dissect flower, anther and ovary .
2. Study pollen germination on a slide.
3. Prepare temporary mount to study mitosis.
4. To study the effect of temperature and pH on salivary amylase.
5. Prepare temporary mount of pollen germination.
6. Study of adaptations in flowers.
7. Study meiosis through permanent slides.
8. Study Mendelian inheritance.
9. Exercise on controlled pollination.
10. Study disease causing organisms and symptoms of disease.

Half Yearly Examination

NCERT : Chapter 1-16

Practicals

Exp. 1-10(done above)

11. Study of blastula
12. Study of stages of gametogenesis
13. Study of pedigree charts.
14. Study of soil samples.
15. Study of water samples.
16. Study of SPM in air.
17. Study of plant population density/frequency by quadrat method.
18. Study plant and animal adaptations. (Xeric & aquatic conditions)

Pre- Board Examination

Theory : Complete Syllabus
Practical : Complete Syllabus

ENGINEERING GRAPHICS

- Text Book** : 1. Engineering Graphics, Part II by V.P. Kumar
2. Engineering Graphics, Part II published by CBSE

Unit Test I

Isometric projection of solids-

Construction of isometric scale, isometric projections of single solids.

Frustum of pyramids and cone (Indicate the direction of viewing).

Hidden lines are not required.

Unit Test II

1. Combination of two solids (except frustums of pyramids and cone)
2. Machine drawing – Screw threads, Bolts, Nuts, plain washer and combination of Nut and bolt, single riveted lap joint.

First Quarterly Examination

1. Machine drawing – (freehand sketches), Threads, Studs, Machine Screws etc. Types of rivets and keys.
2. Assembled views and Disassembled views also of the following Machine parts .
Bearings (Open, Bushed, Footstep), Simple Plummer Block, Rod-joints-cotter for circular, round and square rods.
3. Practical of Machine Block and Project file (CAD) simple solids or Machine Blocks as prescribed by the CBSE.

Half Yearly Examination

Assembled views and Disassembled views also of the following

1. Knuckle joint, Turn-Buckle, Flange pipe-joint.
2. Couplings- Protected and un-protected.
3. Pulleys – solid cast iron, single grooved V-Belt
4. Dis-assembly of the above drawings also
5. Revision
6. Practical –Complete machine block questions (given in the CBSE Syllabus) , Viva – Voce.
“Computer aided design” CAD – Project form software of simple solids (Prisms, Pyramids and frustum of pyramid and cone or Machine blocks as prescribed in part-1.)

Pre-Board Examination : Complete Syllabus

COMPUTER SCIENCE

Text Book :-

A textbook for Computer Science with C++ . Textbook XII Volume I and Volume II

Unit Test I : Chapter 1 to 6

Unit Test II : Chapter 7 to 9

First Quarterly Examination

Chapter 1 to 12 & 14 (partial)

Half Yearly Examination

Chapter 1 to 12 and 14

Pre-board Examination

Complete syllabus

Note : Syllabus for Practical Exams will be same as topics covered in theory for that exam.

INFORMATICS PRACTICES

Text Book :- Informatics Practices by Reeta Sahoo.

Unit Test I

Unit 3

Chapter 1 : Review of My SQL

Chapter 2 : Grouping Records in MySQL Database

Chapter 3 : Multiple tables and Database Transaction

Practicals : My SQL

Unit Test II

Unit 1

Chapter 1 : Computer Networking

Chapter 2 : Open Source Technology

Unit 2

Chapter 1 : Review of Java Netbeans 1

Chapter 2 : Review of Java Netbeans 2

Practicals : Netbeans

First Quarterly Examination

: All previously covered chapters and :

Unit 2

Chapter 3 : Java Methods and Classes

Chapter 4 : Inheritance in Java

Chapter 5 : Database connectivity

Practicals : MySQL + Netbeans

Half Yearly Examination

: All previously covered chapters and :

Unit 2

Chapter 6 : Web Application Development

Pre Board Examination

: Complete Syllabus

MULTIMEDIA AND WEB TECHNOLOGY

Textbook : Multimedia and Web Technology by Mukesh Kumar (B.R. International).

Unit Test I

Chapter1 : Revision of Class XI

Chapter 5 : Multimedia Applications

Chapter 14 : Flash –An Introduction

Chapter 15 : Creating Animation

Chapter 16 : Publishing Flash Movies

Practicals : Vbscript, HTML, Flash

Unit Test II	Chapter 2	:	Computer System : Databases
	Chapter 3	:	Communication and Network Concepts
	Chapter 4	:	Introduction to Open Source Software
	Chapter 6	:	Getting started with Active Server Pages
	Chapter 7	:	Variables and operators

Practicals : Ms-Access, HTML , ASP

First Quarterly Examination

	Chapter	:	1 to 7 , 14 to 16
	Chapter 8	:	ASP : Flow of control
	Chapter 9	:	ASP : Procedures
	Chapter 10	:	ASP : Objects
Practicals	:	Javascript, ASP	

Half Yearly Examination

	Chapters	:	1 to 10, 14 to 16
	Chapter 11	:	ASP: Components
	Chapter 12	:	Working with Text files
	Chapter 13	:	Connecting with Databases
Practicals	:	Ms-Access, ASP, Javascript	

Pre-Board Examination Complete Syllabus

ACCOUNTANCY

Text Books:-

1. Accountancy ; Text book for class XII (Not for Profit Organisation and Partnership Accounts.), NCERT (First book)
2. Accountancy ; Text book for class XII (Company Accounts and Analysis of Financial Statements), NCERT (Second book)

Unit Test I : Chapter 1,2(First Book)

Unit Test II : Chapter 3,4 (First Book)

First Quarterly Examination: Chapter 1 to 5 (First Book)
Chapter 1 (Second Book)

Half Yearly Examination : Chapter 1 to 5 (First Book)
Chapter 1 to 6 (Second Book)

Pre-Board Examination : Complete Syllabus + Project Work

BUSINESS STUDIES

Text Books :

1. **Business Studies Part –I : Text book for Class XII**
(Principles and Functions of Management) – NCERT

2. Business Studies Part- II : Text book for Class XII
(Business Finance and Marketing) – NCERT

Unit Test I : Chapter 1,2

Unit Test II : Chapter 4,5

First Quarterly Examination: Chapter 1 to 8

Half Yearly Examination : Chapter 1 to 11

Pre-Board Examination : Complete syllabus

ECONOMICS

Text Books :

1. Book I : Introductory Micro Economics , Text book in Economics for Class XII-NCERT
2. Book II : Introductory Macro Economics , Text book in Economics for Class XII-NCERT

Unit Test I

Book I : Unit I, II

Unit Test II

Book II : Unit III, IV

First Quarterly Examination

Book I : Unit I, II, III, IV

Book II : Unit VI

Half Yearly Examination

Book I : Unit I to IV

Book II : Unit VI to IX

Pre-Board Examination

Complete Syllabus

PHYSICAL EDUCATION

Text Book :-

Health and Physical Education by V.P. Sharma (Saraswati Publication.)

Unit Test I

Part A : Unit 1, Unit 2

Unit Test II

Part A : Unit 3, Unit 4

First Quarterly Examination

Part A : Unit 1 to 5

Part B : Unit 1

- Practicals : i) Physical fitness test
ii) Skills of chosen sport/game
iii) Any five Asanas

Half Yearly Examination

- Part A : Unit 1 to 7
Part B : Unit 1 , Unit 2

- Practicals : i) Physical fitness test
ii) Skills of chosen sport / game
iii) Any five Asanas

Pre -Board

Complete Syllabus

- Part A : Unit 1 to 8
Part B : Unit 1, Unit 2
Practicals : i) Physical fitness test
ii) Skills of chosen sport/game
iii) Any five Asanas

ENVIRONMENTAL EDUCATION

Text Book :-

Environmental Education for us by Y.P. Purang (Arya Publishing Company)

- First Quarterly Examination:** Unit I and II
Project : Biodiversity and its conservation
- Half Yearly Examination :** Unit III and IV (up to chapter 20)
Project : Sustainable development and agriculture.
- Pre-Board :** Chapter 21

Note : No formal written examination will be held. It will be evaluated on the basis of the project work.

COMMERCIAL ART

Text Book :

History of Indian Art I (XII)

Chapter :

1. The Rajasthani and Pahari Schools of Miniature Painting.
2. The Mughal and Deccan Schools of Miniature Painting.
3. the Bengal School of Painting and the Modern Trends in Indian Art.

Unit Test I

The Rajasthani School

1. Orgin and Development
2. Sub Schools – Mewar, Bundi, Jodhpur, Bikaner, Kishangarh and Jaipur
3. Main features of the Rajasthani School
4. Study of the following rajasthani Paintings-

- i) Maru Ragini
 - ii) Raja Anirudha Singh Heena
 - iii) Chaugan Player
 - iv) Krishna on swing
 - v) Radha (Bani Thani)
 - vi) Bharat meets Rama at Chitrakut
5. Pahari School origin and development

Unit Test II

Chapter : The Pahari School

Chapter : The Mughal School

1. Orgin and Development
2. Main features of Mughal School
3. Main features of the Pahari School
4. Two Painting

First Quarter Examination

Theory

1. The Rajasthani and Pahari Schools of Miniature Painting
2. The Mughal School and Deccan School of Miniature Painting
3. Bengal School of Painting
4. A new era in Indian Art an introduction.

Practical

Posters and illustration on the current topics

OR

Day to day life.

Half Yearly Examination

Theory

1. The Rajasthani and Pahari Schools of Miniature Painting
2. The Mughal and Deccan Schools of Miniature Painting
3. The Bengal School of Painting and the Modern Trends in Indian Art.

Practical

Posters and illustration on the current topics

Pre-Board Examination

Theory

Chapter 1-3(Complete)

Practical

1. Posters
 2. Illustrations
 3. Internal Assessment
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