

MODERN PUBLIC SCHOOL, SHALIMAR BAGH
SYLLABUS FOR THE SESSION: 2018-19

CLASS XI

SCIENCE

ENGLISH

Prescribed Books:

- 1. Hornbill :Textbook in English for class XI Core Course**
- 2. Snapshots : Supplementary Reader in English for class XI Core Course**

UNIT I

Reading	:	Note Making and abstractions
Writing Skills	:	Invitations
Hornbill	:	Prose :1
	:	Poem : 1
Snapshots	:	Chapter: 1

TERM I

Reading	:	Comprehension and Note making
Short compositions	:	Invitations and Advertisements
Letters	:	Application, Product compliant
Report Writing, Article, Speech, Debate	:	
Hornbill	:	Prose : 1, 2, 3
Poem	:	1,2,3
Snapshots	:	Chapter 1, 2,3, 4

UNIT II

Writing	:	Letter of Enquiry
Short composition	:	Designing a poster
Hornbill	:	Poem : 4
Snapshots	:	Chapter: 5

ANNUAL EXAMINATION

Reading	:	Comprehension and Note Making
Short Compositions	:	Notice, Poster, Invitations, Advertisements
Letters		
Report Writing		
Article, Speech, Debate		
Hornbill		Prose : 1-8
	:	Poem : 1-5
Snapshots	:	Chapter 1-8

MATHEMATICS

Prescribed Book: Mathematics Textbook for Class XI-NCERT

UNIT I

Chapter 1	:	Sets
Chapter 2	:	Relation and function
Chapter 3	:	Trigonometry

TERM I

Chapters 1,2,3 and		
Chapter 4	:	Principle of Mathematical Induction
Chapter 5	:	Complex Numbers and Quadratic Equations
Chapter 6	:	Linear Inequalities
Chapter 7	:	Permutations and combinations
Chapter 13	:	Limits and Derivatives

UNIT II

Chapter 8	:	Binominal Theorem
Chapter 9	:	Sequences and Series

ANNUAL EXAMINATION

Complete Syllabus

PHYSICS

Prescribed Books:

1. Textbook for Class XI – Part I and II (NCERT)
2. Practical Physics laboratory Manual XI (Arya Publication)

Reference Books:

1. Modern abc of Physics, class XI
2. New Era Physics by Surinder Lal (G.R. Bathla)

UNIT I

Chapter 1	:	Physical World
Chapter 2	:	Units and Measurement
Chapter 3	:	Motion in a straight line
Chapter 4	:	Motion in a Plane

TERM I

Chapters 1 to 4 (given above)

Chapter 5	:	Laws of motion
Chapter 6	:	Work, Energy and Power
Chapter 8	:	Gravitation
Chapter 9	:	Mechanical properties of solids

UNIT II

Chapter 7	:	System of particles and rotational motion
Chapter 10	:	Mechanical properties of fluids

ANNUAL EXAMINATION

Complete Syllabus

Note : Syllabus for practical examinations will be given by the teacher.

CHEMISTRY

Prescribed Books :

1. Textbook for Class XI – Part I and II (NCERT).
2. Comprehensive Practical Chemistry for Class XI (Laxmi Publications)

UNIT I

- Chapter 1** : Some Basic concepts of Chemistry
- Chapter 2** : Structure of Atom
- Chapter 3** : Classification of elements and periodicity in properties

TERM I

- Chapters 1 to 3 (given above)**
- Chapter 4** : Chemical Bonding and Molecular structure
- Chapter 5** : States of Matter – Gases and Liquids
- Chapter 8** : Redox Reactions
- Chapter 14** : Environmental Chemistry

UNIT II

- Chapter 9** : Hydrogen
- Chapter 10** : S-Block element
- Chapter 11** : p - Block elements

ANNUAL EXAMINATION

Complete Syllabus

Note: Syllabus for practical examinations will be given by the teacher.

BIOLOGY

**Prescribed Book: Textbook for Class XI (NCERT) Together with
Biology Practical for class XI (Rachna Sagar)**

Or

**Biology Laboratory Manual for class XI Arya Publication by
S.C. Maheshwari**

UNIT I

Chapter 1	:	The Living World
Chapter 2	:	Biological Classification
Chapter 5	:	Morphology of Flowering Plants

TERM I

Theory	:	Chapter 1 to 10
Practicals	:	
		1) Parts of compound microscope.
		2) Study of plants and animal specimens.
		3) Study of plants and animal tissues.
		4) Study of Mitosis
		5) Description of floral families.
		6) T.S. of dicot / monocot stem

UNIT II

Chapter 13	:	Photosynthesis in Higher Plants
Chapter 14	:	Respiration in Plants

ANNUAL EXAMINATION

Theory	:	Chapter 1 to 22 (Complete Syllabus)
Practicals	:	1 to 6 (as mentioned)
		7) Study of osmosis
		8) Study of plasmolysis
		9) Distribution of stomata.
		10) Rate of transpiration
		11) Paper Chromatography
		12) Study of mitosis
		13) Study of imbibition

ENGINEERING GRAPHICS

Prescribed Books:

1. Basic Engineering Graphics, Part I by V.P. Kumar
2. Engineering Graphics Part I, Published by the CBSE

UNIT I

- Plane Geometry** : Lines, Angles, Ratio and Proportion, Triangles, Quadrilaterals,
Solid Geometry : Plane figures in Solid Geometry and Solid questions of chapter no.10 and 11.

TERM I

- Plane Geometry** : Questions on Polygon (regular and irregular), circles.
Solid Geometry : Chapter No. 12 and 13

UNIT II

- Plane Geometry** : Circles and its tangents.
Solid Geometry : Method of 1st angle projection, Orthographic projections .
Questions on different solids in vertical and lying position.
Chapter no. 14 , 15 , 16 and sectional solids (chapter on constructions of isometric scale and isometric projections – triangle, square , pentagon , hexagon and circle)
- Practical** : As prescribed by CBSE

ANNUAL EXAMINATION

- Machine Drawing** : Orthographic projections of different Machine Blocks given in the book. (Solved and unsolved Machine Blocks)
- Plane Geometry** : Rest of the questions of Circles, external – internal tangents, ellipse etc.
Solid questions (Chapter No. 20 to 24)
Complete Syllabus
- Plane Geometry** : Inscribe and describe figures
Solid Geometry : Questions on sectional solids with true shapes and revision.
Questions on development of Surfaces (Section V) and Revision of whole syllabus.
- Practical** : Syllabus as given in the CBSE Syllabus

COMPUTER SCIENCE

Prescribed Book : A text book for class XI Computer Science with C++
by Preeti Arora and Pinky Gupta

UNIT I

Chapter 1	:	Computer Fundamentals
Chapter 2	:	Software Concepts
Chapter 6	:	Algorithm and Flowcharts
Chapter 7	:	Getting started with C++

Term I

Chapters 1,2,6,7 and	:	
Chapter 3	:	Number System
Chapter 5	:	Programming Methodology
Chapter 8	:	Data Types, Variables and Constants
Chapter 9	:	Operators and Expressions in C++
Chapter 10	:	Flow of control
Practical File	:	Programs according to topics to be completed.

UNIT II

Chapter 11	:	Functions(Built-in and user defined functions)
Chapter 14	:	Basic OOP Concepts

ANNUAL EXAMINATION

Complete syllabus
Project Work

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

PHYSICAL EDUCATION

Prescribed Book: Physical Education and Health by Saraswati Publication.

UNIT I

Theory	:	
Unit 2	:	Physical fitness, Wellness and lifestyle
Unit 1	:	Changing trends and career in Physical Education
1.1	:	Definition, Aim and Objectives of Physical Education
1.6	:	Career options in Physical education
1.3	:	Concept and Principles of integrated Physical Education

- Unit 11** : Training in sports
- 11.1** : Meaning and concept of sports training
- 11.2** : Principles of sports training
- 11.3** : Warming up and limbering down

TERM I

Previously covered chapters

- Theory** : Unit 3, 4
- Unit 3** : Olympic Movement
- Unit 4** : Yoga
- Practical** :
 - i) Physical fitness test
 - ii) Skills of chosen sport/game
 - iii) Any five Asana

UNIT II

- Theory** : Unit V, VI, VII
- Unit 5** : Doping
- Unit 6** : Physical Activity Environment
- Unit 7** : test and measurement in sports

ANNUAL EXAMINATION

- Theory** : Unit 1 to 11
 - Unit 8** : Fundamentals of Anatomy and Physiology
 - Unit 9** : Biomechanics and Sports
 - Unit 10** : Psychology and sports
 - Practical** :
 - i) Physical fitness test
 - ii) Skills of chosen sport/game
 - iii) Any five Asana
 - iv) Record file
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