



**Modern School**  
**Barakhamba Road**  
**Syllabus for Half Yearly Exam -2014-2015**  
**Class – S7**

**HISTORY**

**PART-1**

1. Theme one : Beads and Bones the Harappan civilization
2. Theme Two : Kings, Farmers and towns early states and economies
3. Theme Three : kingship, caste and class early society
4. Theme Four : thinkers, beliefs and buildings cultural Developments

**PART-II**

1. Theme Five : through the eyes of Travelers perceptions of society.
2. Theme Six : Bhakti – Sufi Traditions
3. Theme Seven: An Imperial Capital : Vijaynagara
4. Theme Eight: Peasants, Zamindars and the State Agrarian society .  
The Mughal empire
5. Theme Nine : Kings and chronicles the Mughal courts

**ENGLISH**

Reading Comprehension Writing Skills Note – Making

**FLAMINGO**

1. The last lesson
2. Lost spring

3. My mother at sixty six
4. An elementary classroom in a slum
5. Deep water
6. The rattrap
7. Keeping Quiet
8. Aunt Jennifer's Tigers

### **VISTAS**

1. The tiger king
2. The Enemy
3. Should wizard Hit Mommy
4. On the face of it

**Novel: The Invisible Man – 10 chapters**

### **PHYSICAL EDUCATION**

Marks :70

#### **PART –A**

- 1 Unit : Sports environment and Society
- 2 Unit : Adventure sports & leadership training
- 3 Unit: Sports and Nutrition
- 4 Unit : Planning in sports
- 5 Unit: postures
- 6 Unit : Children and sports
- 7 Unit : Test and measurement in sports
- 8 Unit : Physiology and sports
- 9 Unit : Biomechanic and sports
- 10 Unit: Psychology and sports
- 11 Unit: Training in sports

## **HOME SCIENCE**

UNIT : I & II

## **PHYSICS**

### **CLASS 5-7**

- 1) Optics
- 2) Electrostatics
- 3) Current electricity
- 4) Magnetic effects of current and magnetism
- 5) EMI

## **PAINTING**

UNIT I : The Rajasthani & pahari school of miniature  
Paintings

UNIT II : The Mughal and Deccan school of miniature  
Painting

UNIT III : The Bengal school of painting  
: Raja Ravi Verma

## **POLITICAL SCIENCE**

BOOK – I

Contemporary world politics

## **BIOLOGY**

### UNIT VI

Reproduction – chapters 1,2,3 & 4

### UNIT VII

Genetics and Evolution chapters 5,6 & 7

### UNIT VIII

Biology in Human Welfare chapters 8,9 & 10

## **FASHION TECHNOLOGY**

UNIT I - History of Fashion

UNIT II - Basic Pattern Developments

UNIT III - Elements of Fashion

## **GEOGRAPHY**

**S-7**

**BOOK :** 1 + 2 CHAPTERS BOOK –II

## **BIOTECH**

- CHAPTER 1 - Proteins structure and Engineering  
CHAPTER 2 - Recombinant DNA Technology  
CHAPTER 3 - Microbial culture Techniques

## **CHEMISTRY**

1. Solid state
2. Solutions
3. Electro chemistry
4. Chemical kinetics
5. Surface chemistry
6. Halo alkenes Haloarenes
7. Polymers
8. Chemistry in every day life
9. Bio Molecules

## **MATHEMATICS**

- |                                   |        |
|-----------------------------------|--------|
| 1) Relations                      | (09)   |
| 2) Inverse trigonometric function | (09)   |
| 3) Matrices & Determinate         | (25)   |
| 4) Contaminate & Differentiation  | ( 19 ) |
| 5) Application of Derivations     | ( 22 ) |
| 6) Integration                    | (25)   |
| 7) Application of Integration     | (25)   |

Total =100

Note: pattern of paper will be exactly similar to board paper

## LEGAL STUDIES

<u>CHAPTERS</u>	<u>MARKS</u>
Judiciary	30
Law of Torts	20
Law of Contract	10
Administrative Law	20
Law of crimes	10
Property Law	10

## ECONOMICS

### INTRODUCTORY MICROECONOMICS - PART –A

<b>UNIT I:</b>	<b>Introduction</b>
CHAPTER 1	Scope of Economics
Chapter2	Economy and Economic problem
Chapter 3	Central Problems of an Economics
Chapter 4	Concepts of opportunity cost and production possibilities Frontier

### UNIT 2 CONSUMER'S EQUILIBRIUM AND DEMAND

Chapter 5	consumers Equilibrium : Utility Analysis
Chapter 6	Consumers Equilibrium : Indifference curve Analysis
Chapter 7	demand
Chapter 8	Price Elasticity of Demand

<b>UNIT 3 :</b>	<b>PRODUCER BEHAVIOUR AND SUPPLY</b>
Chapter 9	production Function : Returns to a Factor
Chapter 10	Cost
Chapter 11	Supply and Elasticity of supply
Chapter 12	Revenue
Chapter 13	producer's Equilibrium

### UNIT 4 : FORMS OF MARKET AND PRICE DETERMINATION

Chapter 14	perfect competition
Chapter 15	other forms of market

## **INTRODUCTORY MACROECONOMICS – PART B**

Chapter 16	Basic concepts
Chapter 17	Methods of estimating national Income
Chapter 18	Disposable income Aggregates
Chapters 19	G.D. P. and welfare

## **PSYCHOLOGY**

Chapter 1,2,3,4,5, and chapter 6 till before social cognition

## **ACCOUNTANCY**

1. FUNDAMENTALS
2. CHANGE IN PROFIT SHARING RATIO
3. VALUATION OF GOODWILL
4. ADMISSION OF A PARTNER
5. RETIREMENT AND DEATH OF A PARTNER
6. DISSOLUTION OF A PARTNERSHIP FIRM
7. ISSUE OF SHARES (TILL Q 40)

## **BUSINESS STUDIES**

1. NATURE AND SIGNIFICANCE OF MANAGEMENT
2. PRINCIPLES OF MANAGEMENT
3. BUSINESS ENVIRONMENT
4. PLANNING
5. ORGANISING
6. STAFFING
7. DIRECTING
8. CONTROLLING

## Computer Science

- Object oriented programming- important characteristics;
- Constructor & Destructor;
- Inheritance and types of Inheritance;
- Address Calculations;
- 1-D Array – Sorting, searching, merging, stack, queue and circular queue
- Pointers & Linked List – Stack & Queue;
- Text File and Data file in C++;
- Boolean algebra;
- Networking;

## Multimedia & Web Technology

Database Terminology: Concept of keys Database4 tools, defining Primary key  
Inserting and Deleting columns, modifying records and settings table relationship

Networking and open standards: Computer Networking, network topologies, type  
of network wired technologies, wireless technologies, network devices, mobile  
communication, internet application and network security concepts.

Open Source Based software: Open source software, common FOSS/FLOSS office,  
Linux, Mozilla web Browser, Apache server, MySQL, postgres, Pango, Tomcat PHP,  
Python

Web Page Development: Review of HTML/DHTML, VBScript covered in class XI  
installation and managing web-server: internet information server personal web  
server.

ASP: Active Server Page: Concepts of ASP, Features of ASP other equivalent tools-  
JSP, PHP constants, Datatype variables.

Operators: Arithmetic, Comparison, Logical & String Operator.