



**STEPHENS INTERNATIONAL  
PUBLIC SCHOOL**

**TERM 1 – SYLLABUS**

**CLASS XII (2021 – 22)**

# ENGLISH

## **Reading Comprehension:** (Two Passages)

- Unseen passage (Factual, descriptive or literary/ discursive or persuasive)
- Case Based Unseen (Factual) Passage

## **Creative Writing Skills:**

### ***Short Writing Tasks***

- Notice Writing
- Classified Advertisements

### ***Long Writing Tasks (One)***

- Letter to an Editor (giving suggestions or opinion on issues of public interest)
- Article Writing

## **Literature:**

- Literary-prose/poetry extracts ( seen- texts ) to assess comprehension and appreciation, analysis, inference, extrapolation

## ***Questions Based on Texts to assess comprehension and appreciation, analysis, inference, extrapolation***

### **Book- Flamingo (Prose)**

- The Last Lesson
- Lost Spring
- Deep Water

### **Book-Flamingo (Poetry)**

- My Mother at Sixty-Six
- An Elementary School Classroom in a Slum
- Keeping Quiet

### **Book-Vistas (Prose)**

- The Third Level
- The Enemy

# **PHYSICS (XII)**

## **Unit 1 - Electrostatics**

Chapter-1: Electric Charges and Fields

Chapter-2: Electrostatic Potential and Capacitance

## **Unit 2 - Current Electricity**

Chapter-3: Current Electricity

## **Unit 3 - Magnetic Effects of Current and Magnetism**

Chapter-4: Moving Charges and Magnetism

Chapter-5: Magnetism and Matter

## **Unit 4 - Electromagnetic Induction and Alternating Currents**

Chapter-6: Electromagnetic Induction

Chapter 7: Alternating currents

# **CHEMISTRY (XII)**

Unit 1 - Solid State

Unit 2 - Solutions

Unit 3 - p-Block Elements

Unit 4 - Haloalkanes and Haloarenes

Unit 5 - Alcohols, Phenols and Ethers

Unit 6 – Biomolecules

# **BIOLOGY (XII)**

## **Unit - VI Reproduction:**

Chapter – 2 Sexual Reproductions in Flowering Plants

Chapter – 3 Human Reproductions

Chapter – 4 Reproductive Health

## **Unit - VII Genetics and Evolution:**

Chapter – 5 Principles of Inheritance and Variation

Chapter – 6 Molecular Basis of Inheritance

# MATHEMATICS

## **Unit-I: Relations and Functions**

Chapter 1. Relations and Functions

Chapter 2. Inverse Trigonometric Functions

## **Unit-II: Algebra**

Chapter 1. Matrices

Chapter 2. Determinants

## **Unit-III: Calculus**

Chapter 1. Continuity and Differentiability

Chapter 2. Applications of Derivatives

## **Unit-V: Linear Programming**

Chapter 1. Linear Programming

# **ACCOUNTING**

## **Part A**

### **ACCOUNTING FOR PARTNERSHIP FIRMS:**

Chapter - FUNDAMENTALS

Chapter - CHANGE IN PROFIT SHARING RATIO

Chapter - ADMISSION OF A PARTNER

### **COMPANY ACCOUNTS:**

Chapter - ACCOUNTING FOR SHARES

## **Part B**

### **ANALYSIS OF FINANCIAL STATEMENTS:**

Chapter - FINANCIAL STATEMENTS OF A COMPANY

Chapter - ACCOUNTING RATIOS

**OR**

### **COMPUTERISED ACCOUNTING**

Chapter - OVERVIEW OF COMPUTERISED ACCOUNTING SYSTEM

Chapter - ACCOUNTING APPLICATION OF ELECTRONIC SPREADSHEET

# **BUSINESS STUDIES**

## **Part A - Principles and Functions of Management**

Unit -1 Nature and Significance of Management

Unit -2 Principles of Management

Unit -3 Business Environment

Unit -4 Planning

Unit -5 Organizing

## **Part B - Business Finance and Marketing**

Unit -11 Marketing Management



# **ECONOMICS**

## **Part A: Introductory Macroeconomics**

- Money and Banking
- Government Budget and the Economy
- Balance of Payments

## **Part B: Indian Economic Development**

### **Development Experience (1947-90) and Economic Reforms since 1991:**

- Indian Economy on the eve of Independence
- Indian Economy (1950-90)
- Liberalisation, Privatisation and Globalisation: An Appraisal

### **Current challenges facing Indian Economy**

- Poverty
- Human Capital Formation
- Rural development

# **POLITICAL SCIENCE**

## **Part A: Contemporary World Politics**

- Cold War Era and Non-aligned Movement
- The End of Bipolarity
- United Nations and its Organizations

## **Part B: Politics in India since Independence**

- Challenges of Nation-Building
- Planning and Development
- India's Foreign Policy

# HISTORY

**Theme 1** - Bricks, Beads and Bones

**Theme 2** - Kings, Farmers and Towns

**Theme 3** - Kinship, Caste and Class

**Theme 4** - Thinkers, Beliefs and Buildings

**Theme 6** - Bhakti –Sufi Traditions

**Theme 7** - An Imperial Capital: Vijayanagara

# COMPUTER SCIENCE

## Unit I: Computational Thinking and Programming – 2

- Revision of Python topics covered in Class XI.
- Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope)
- Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file CSV file: import csv module, open / close csv file, write into a csv file using csv.writerow() and read from a csv file using csv.reader( )

# PHYSICAL EDUCATION

## **Unit 1 - Planning in Sports**

Meaning & Objectives Of Planning Various Committees & its Responsibilities (pre; during & post) Tournament – Knock-Out, League Or Round Robin & Combination Procedure To Draw Fixtures – Knock-Out (Bye & Seeding) & League (Staircase & Cyclic)

## **Unit 2 - Sports & Nutrition Balanced Diet & Nutrition:**

Macro & Micro Nutrients Nutritive & Non-Nutritive Components of Diet Eating For Weight Control – A Healthy Weight, the Pitfalls of Dieting, Food Intolerance & Food Myths.

## **Unit 5 - Children & Women in Sports**

Motor development & factors affecting it Exercise Guidelines at different stages of growth & Development Common Postural Deformities - Knock Knee; Flat Foot; Round Shoulders; Lordosis, Kyphosis, Bow Legs and Scoliosis and their corrective measures Sports participation of women in India

## **Unit 6- Test & Measurement in Sports**

Motor Fitness Test – 50 M Standing Start, 600 M Run/Walk, Sit & Reach, Partial Curl Up, Push Ups (Boys), Modified Push Ups (Girls), Standing Broad Jump, Agility – 4x10 M Shuttle Run o Measurement of Cardio Vascular Fitness – Harvard Step Test/Rockport Test - Duration of the Exercise in Seconds x 100 5.5 x Pulse count of 1-1.5 Min after Exercise Rikli & Jones - Senior Citizen Fitness Test

## **Unit 8 - Biomechanics & Sports**

Meaning and Importance of Biomechanics in Sports, Types of movements (Flexion, Extension, Abduction & Adduction), Newton's Law of Motion & its application in sports.

# HINDUSTANI VOCAL MUSIC

**Unit 1** - Brief study of the following :- Alankar, Alap, Tana Meend, Gamak

**Unit 2** - Historical development of Time Theory of Ragas

**Unit 3** - Detailed study of the following: Sangeet Ratnakar

**Unit 4** - Description of Prescribed Talas along with Tala Notation with Tah, Dugun, and Chaugun: Jhaptala, Rupak Dhamar.

**Unit 5** - Critical study and writing in Notation the compositions of the prescribed Ragas along with recognizing Ragas from phrases of Swaras and elaborating them: Bhairav, Bageshri

# **APPLIED / COMMERCIAL ARTS**

**Unit 1** – The Rajasthani and Pahari Schools of Miniature Painting

**Unit 2** – The Mughal and Deccan Schools of Miniature Painting