

**ARMY PUBLIC SCHOOL, PATIALA**

**CLASS: XII (2023-24) (SCIENCE)**

**HALF-YEARLY SYLLABUS**

**SUBJECT: ENGLISH CORE**

1. Reading Comprehension
2. Notice
3. Formal / Informal Invitations & Replies
4. Letter Writing: Job Application & Letter to the Editor
5. Article Writing
6. Literature :

**Flamingo:**

(Prose)

- 1) Lost Spring
- 2) Deep Water
- 3) The Rattrap
- 4) Indigo

**Poetry**

- 5) My Mother at Sixty-Six
- 6) Keeping Quiet
- 7) A Roadside Stand
- 8) Aunt Jennifer's Tigers

**Vistas:**

- 9) The Third Level
- 10) The Tiger King
- 11) Journey to the End of the Earth
- 12) The Enemy
- 13) Memories of Childhood

**SUBJECT: APPLIED MATHEMATICS**

**Unit 2 Matrix and Determinants**

**Unit 3. Differentiation and its Applications ,  
Integration and its Applications,  
Differential Equations**

**Unit 4. PROBABILITY DISTRIBUTIONS**

**Unit 5 INFERENCE STATISTICS**

## **SUBJECT: MATHEMATICS**

- 1. Functions and relations**
- 2. Inverse trigonometric functions**
- 3. Matrices and determinants**
- 4. Continuity and differentiability**
- 5. Differentiation (including higher order derivatives)**
- 6. Applications of derivatives .**
- 7. Indefinite Integrals**
- 8. Definite Integrals**
- 9. Area of bounded regions**
- 10. Differential equations**
- 11. Linear programming problems.**

## **SUBJECT: SCIENCE**

<b>Physics</b>	<b>Chemistry</b>	<b>Biology</b>
Ch - 1 Electric charges and fields	1. d and f block elements	Unit 1 Reproduction
Ch 2 Electrostatic potential and capacitance	2. Coordinate compounds	Unit 2 Genetics
Ch 3 Current electricity	3.Haloalkanes and Haloarenes	Unit 3 Microbes in human welfare
Ch 4 Moving charges and magnetism	4.Alcohols , Phenols and ethers	Unit 4 Biotechnology
Ch 5 Magnetism And Matter	5.Biomolecules	
Ch 6 Electromagnetic Induction		
Ch 7 Alternating Current		
Ch 8 Electromagnetic Waves		

## **SUBJECT: COMPUTER SCIENCE**

- UNIT 1 - Computational thinking and programming**
- UNIT 2 - Database Management**

## **SUBJECT: INFORMATICS PRACTICES**

- UNIT 1 - Data Handling using Panda - I  
Data Visualisation**
- UNIT 2 - Database Query using SQL**

**ARMY PUBLIC SCHOOL, PATIALA**  
**CLASS: XII (2023-24)(COMMERCE)**  
**HALF-YEARLY SYLLABUS**

**SUBJECT: ENGLISH CORE**

7. Reading Comprehension
8. Notice
9. Formal / Informal Invitations & Replies
10. Letter Writing: Job Application & Letter to the Editor
11. Article Writing
12. Literature :

**Flamingo:**

(Prose)

- 14) Lost Spring
- 15) Deep Water
- 16) The Rattrap
- 17) Indigo

**Poetry**

- 18) My Mother at Sixty-Six
- 19) Keeping Quiet
- 20) A Roadside Stand
- 21) Aunt Jennifer's Tigers

**Vistas:**

- 22) The Third Level
- 23) The Tiger King
- 24) Journey to the End of the Earth
- 25) The Enemy
- 26) Memories of Childhood

**SUBJECT: BUSINESS STUDIES**

**Chapter 1 Nature and Significance of Business**

**Chapter 2 Principles of Management**

**Chapter 3 Business Environment**

**Chapter 4 Planning**

**Chapter 5 Organising**

**Chapter 6 Staffing**

**Chapter 7 Directing**

**Chapter 8 Controlling**

## **SUBJECT: ACCOUNTANCY**

**Chapter 1 Fundamentals of Partnership**

**Chapter 2 Reconstitution of Partnership**

**Chapter 3 Dissolution of Partnership**

**Chapter 4 Accounting for Share Capital**

**Chapter 5 Accounting for Debentures**

## **SUBJECT: ECONOMICS**

### **PART-A 'Macro Economics'**

**Chapter-1 'Introduction'**

**Chapter-2 'Basic Concepts of Macro Economics'**

**Chapter-3 'National Income Aggregates'**

**Chapter-4 'Measurement of National Income'**

**Chapter-5 'Money and Supply of Money'**

**Chapter-6 'Banking'**

**Chapter-7 'Aggregate Demand and Aggregate Supply'**

**Chapter-8 'Short Run Equilibrium Output'**

**Chapter-9 'Problems of Deficient and Excess Demand'**

**Chapter-10 'Government Budget and the Economy'**

**Chapter-11 'Foreign Exchange Rate'**

**Chapter-12 'Balance of Payments'**

### **PART-B 'Indian Economic Development'**

**Chapter-1 'Indian Economy on the eve of Independence'**

**Chapter-2 'Indian Economy-1950 - 1990'**

**Chapter-3 'New Economic Policy-1991'**

**ARMY PUBLIC SCHOOL, PATIALA**  
**CLASS: XII (2023-24)(HUMANITIES)**  
**HALF-YEARLY SYLLABUS**

**SUBJECT: ENGLISH CORE**

13. Reading Comprehension
14. Notice
15. Formal / Informal Invitations & Replies
16. Letter Writing: Job Application & Letter to the Editor
17. Article Writing
18. Literature :

**Flamingo:**

(Prose)

- 27) Lost Spring
- 28) Deep Water
- 29) The Rattrap
- 30) Indigo

**Poetry**

- 31) My Mother at Sixty-Six
- 32) Keeping Quiet
- 33) A Roadside Stand
- 34) Aunt Jennifer's Tigers

**Vistas:**

- 35) The Third Level
- 36) The Tiger King
- 37) Journey to the End of the Earth
- 38) The Enemy
- 39) Memories of Childhood

**SUBJECT: HISTORY**

**THEME-1**

- 1.Bricks,Beads and bones
- 2.Kings,Farmers and towns
- 3.Kingship,Caste and Class
- 4.Thinkers,beliefs and buildings

**THEME-2**

- 5.Through the eyes of travellers
- 6.Bhakti,Sufi Traditions
- 7.An Imperial Capital Vijayanagra Empire
8. Peasants, Zamindars and state

## **SUBJECT: GEOGRAPHY**

### **PART-A ( Fundamentals of Human Geography)**

- 1. human geography, nature and scope**
- 2. the world population; distribution, density and growth**
- 3. human development**
- 4. primary activities**

### **PART-B (India People and Economy)**

- 1. Population Distribution; Density Growth and Composition**
- 2. Human Settlements**
- 3. Land Resources and Agriculture**
- 4. Water Resources**
- 5. Mineral and energy resources**

## **SUBJECT: POLITICAL SCIENCE**

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

- Chapter 1 The End of Bipolarity**
- Chapter 2 Contemporary Centres of Power**
- Chapter 3 Contemporary South Asia**
- Chapter 4 International Organisations**
- Chapter 5 Security in Contemporary World**

### **Part B Politics In India Since Independence**

- Chapter 1 Challenges of Nation - Building**
- Chapter 2 Era of One - Party Dominance**
- Chapter 3 Politics of Planned Development**
- Chapter 4 India's External Relation**
- Chapter 5 Challenges to and Restoration of Congress system**

## **SUBJECT: PSYCHOLOGY**

**Chapter 1 –Variations in Psychological Attributes**

**Chapter 2 –Self and Personality**

**Chapter 3 –Meeting Life Challenges**

**Chapter 4 –Psychological Disorders**

**Chapter 5 –Therapeutic Approaches**

## **SUBJECT: PHYSICAL EDUCATION**

**Chapter 5 sports and nutrition**

**Chapter 6 Test and measurement in sports**

**Chapter 7 physiology and injuries in sports**

**Chapter 8 Biomechanics and sports**

**Chapter 9 psychology and sports**

## **SUBJECT: FINE ARTS**

### **Topics**

- 1.The features of Rajasthani School and Appreciation of 5 Paintings.**
- 2.The features of Pahari Schools and Appreciation of 2 Paintings.**
- 3.The Mughal School of Miniature Paintings and Appreciation of 4 paintings.**
- 4. The Deccan School of Miniature Paintings and Appreciation of 2 paintings.**