

**DIVINE PUBLIC SCHOOL PHAGWARA**  
**PRE BOARD SYLLABUS (2025-26)**  
**CLASS XII SCI**

**BIOLOGY**

**Unit: 1 Reproduction**

- Ch- 1 Reproduction in organisms
- Ch- 2 Sexual Reproduction in Flowering Plants
- Ch- 3 Human Reproduction
- Ch- 4 Reproductive Health

**Unit: 2 Genetics and Evolution**

- Ch- 5 Principles of Inheritance and Variation
- Ch- 6 Molecular basis of inheritance
- Ch- 7 Evolution

**Unit: 3 Biology in Human Welfare**

- Ch- 8 Human Health and Diseases
- Ch- 10 Microbes in Human Welfare

**Unit: 4 Biotechnology**

- Ch- 11 Biotechnology: Principles and Processes
- Ch- 12 Biotechnology and its applications

**Unit: 5 Ecology**

- Ch-13 Organisms and population
- Ch- 14 Ecosystem
- Ch- 16 Biodiversity and conservation

**PHYSICS**

- Unit -1 Electrostatics
- Unit -2 current electricity
- Unit -3 magnetic effects of current and magnetism
- Unit - 4 electromagnetic induction and alternating currents
- Unit -5 electromagnetic waves
- Unit - 6 optics
- Unit -7 dual nature of radiation and matter
- Unit -8 atoms and nuclei
- Unit -9 electronic devices

**MATHS**

- Chapter - 1 Relation and Function
- Chapter - 2 Inverse Trigonometric Functions
- Chapter - 3 Matrices
- Chapter - 4 Determinants
- Chapter - 5 Continuity & Differentiability
- Chapter - 6 Application of Derivatives
- Chapter - 7 Integrals
- Chapter - 8 Application of Integration
- Chapter - 9 Differential Equation

Chapter - 10 Vectors  
Chapter - 11 Three Dimensional Geometry  
Chapter - 12 Linear Programming  
Chapter - 13 Probability

## **ENGLISH**

### **Reading Skill**

1. Factual, descriptive or literary passage
2. case-based factual passage with verbal/visual inputs like statistical data, charts etc.

### **Writing Skill**

1. Notice writing
2. Formal/Informal Invitation and Reply
3. Letters based on verbal/visual input, Letter types include application for a job with bio data or resume. Letters to the editor (giving suggestions or opinion on issues of public interest).
4. Article/ Report Writing, descriptive and analytical in nature

### **Literature**

Flamingo: (Prose)

1. The Last Lesson
2. Lost Spring
3. Deep Water
4. The Rattrap
5. Indigo
6. Poets and Pancakes
7. The Interview
8. Going Places

Poetry

1. My Mother at Sixty-Six
2. Keeping Quiet
3. A Thing of Beauty
4. A Roadside Stand
5. Aunt Jennifer's Tigers

### **Vistas: Supplementary Reader**

1. The Third Level
2. The Tiger King
3. Journey to the End of the Earth
4. The Enemy
5. On the Face of It
6. Memories of Childhood
7. The Cutting of My Long Hair
8. We Too are Human Beings

## **CHEMISTRY**

Unit 1 - solution  
Unit 2- electrochemistry  
Unit 3 - chemical kinetic  
Unit 4- d and f block  
Unit 5 - coordination compounds  
Unit 6 - haloalkane and haloarens  
Unit 7- alcohol, phenol, ethers  
Unit 8- aldehydes, ketones, carboxylic acid  
Unit 9- amines  
Unit 10 – biomolecules

## **PHYSICAL EDUCATION**

Unit - 1 Management of sporting events  
Unit - 2 Children and Women in sports  
Unit - 3 Yoga as preventive measures for lifestyle disease  
Unit - 4 Physical education and sports for CWSN  
Unit - 5 Sports and Nutrition  
Unit - 6 Test and measurement in sports  
Unit - 7 Physiology and injuries in sports  
Unit-8 Biomechanics and sports  
Unit -9 psychology and sports  
Unit -10 Training in sports

## **MUSIC VOCAL**

### **Unit 1**

1.1. Brief study of the following:  
Alankar, Kan, Meend, Khatka, Murki, Gamak.  
1.2. Brief study of the following:  
Gram, Murchhana, Alap, Tana.

### **Unit - 2**

2.1. Historical development of time theory of Ragas.

### **Unit-3**

3.1 Detail study of the following: I. Sangeet Ratnakar, II. Sangeet Parijat  
3.2. Life sketch and contribution of Faiyaz Khan, Bade Ghulam Ali Khan, Krishna Rao Shankar Pandit.

### **Unit - 4**

4.1. Description of Prescribed Talas along with Tala Notation with Thah, Dugun, Tigun and Chaugun, Jhaptala, Rupak and Dhamar Tala  
4.2. Tuning of Tanpura

### **Unit - 5**

5.1.Critical study of prescribed Ragas along with recognizing Ragas from phrases of Swaras and elaborating them excluding Raga Shudh Sarang  
5.2. Writing in Notation the Compositions of prescribed Ragas: Bhairav, Bageshwari, Malkauns.

## **PAINTING**

### **Unit 1.** The Rajasthani School of Miniature Painting

- Pahari School of Miniature Painting
- The Mughal School of Miniature Painting
- Deccan Schools of Miniature Painting

#### **Paintings**

Radha (Bani- Thani)

Krishna with Gopis by painter Manku

Krishna Lifting Mount Govardhan

Chand Bibi Playing Polo

### **Unit 2.** The Bengal School of Painting and the Modern trends in Indian Art

(About the beginning to mid of the 20th Century), contribution of Indian artists towards freedom movement, Revival of Indian Art, Indian National Flag

Indian National Flag

- The Bengal School of Painting ( Origin, Characteristics, Main features)
- The Modern Trends in Indian Art Paintings, Sculptures

#### **Paintings**

Journey's End by Abanindranath

Rama Vanquishing the Pride of the Ocean by Raja Ravi Varma

Mother Teresa by M.F. Hussain

Santhal Family – Sculpture

Triumph of Labour by Debi Prasad Roy Chowdhury (Sculpture)