



**CHIRANJEEVEE CONCEPT SCHOOL,  
HOCHAR, RANCHI  
SESSION 2024-2025  
SYLLABUS  
STD-12 (SCIENCE)**

## Maths

<p><b><u>Periodic Test 1</u></b></p> <ol style="list-style-type: none"><li>1. Relations and functions</li><li>2. Inverse Trigonometric functions(ITF)</li><li>3. Linear programming</li><li>4. Matrices</li><li>5. Determinants</li><li>6. Probability</li></ol> <p><b><u>Half Yearly Exam</u></b></p> <ol style="list-style-type: none"><li>1. Relations and functions</li><li>2. Inverse Trigonometric functions</li><li>3. Linear programming</li><li>4. Matrices</li><li>5. Determinants</li><li>6. Probability</li><li>7. Vectors</li></ol>	<p><b><u>Periodic Test 2</u></b></p> <ol style="list-style-type: none"><li>1. Continuity and differentiability</li><li>2. Applications of derivatives</li><li>3. Integrals</li><li>4. Applications of integrals</li></ol> <p><b><u>Final Term</u></b></p> <ol style="list-style-type: none"><li>1. Relations and functions</li><li>2. Inverse Trigonometric functions</li><li>3. Matrices</li><li>4. Determinants</li><li>5. Continuity and differentiability</li><li>6. Applications of derivatives</li><li>7. Integrals</li><li>8. Applications of integrals</li><li>9. Differential equations</li><li>10. Vectors</li><li>11. Three dimensional geometry</li><li>12. Linear programming</li><li>13. Probability</li></ol>
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## Subject – PHYSICS

<p><b><u>Periodic Test 1</u></b></p> <p>Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance</p> <p><b><u>Half Yearly Exam</u></b></p> <p>Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance Chapter–3: Current Electricity Chapter–4: Moving Charges and Magnetism Chapter–5: Magnetism and Matter Chapter–6: Electromagnetic Induction Chapter–7: Alternating Current Chapter–8: Electromagnetic Waves</p>	<p><b><u>Periodic Test 2</u></b></p> <p>Chapter–9: Ray Optics and Optical Instruments Chapter–10: Wave Optics</p> <p><b><u>Final Term</u></b></p> <p>Chapter–1: Electric Charges and Fields Chapter–2: Electrostatic Potential and Capacitance Chapter–3: Current Electricity Chapter–4: Moving Charges and Magnetism Chapter–5: Magnetism and Matter Chapter–6: Electromagnetic Induction Chapter–7: Alternating Current Chapter–8: Electromagnetic Waves Chapter–9: Ray Optics and Optical Instruments</p>
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Chapter–10: Wave Optics  
 Chapter–11: Dual Nature of Radiation and matter  
 Chapter–12: Atoms  
 Chapter–13: Nuclei  
 Chapter–14: Semiconductor  
 Electronics: Materials, Devices and Simple Circuits

## Subject – BIOLOGY

### Periodic Test 1

- **Unit VII : Genetics & Evolution**  
 Chapter 5: Principle of Inheritance and Variation  
 Chapter 6: Molecular Basics of Inheritance  
 Chapter 7: Evolution

### Half Yearly Exam

- **Unit VI : Reproduction**  
 Chapter 1: Reproduction in organisms  
 Chapter 2: Sexual Reproduction in Flowering Plants  
 Chapter 3: Human Reproduction  
 Chapter 4: Reproductive Health
- **Unit VII : Genetics & Evolution**  
 Chapter 5: Principle of Inheritance and Variation  
 Chapter 6: Molecular Basics of Inheritance  
 Chapter 7: Evolution

### Periodic Test 2

- **Unit IX : Biotechnology**  
 Chapter 11: Biotechnology: Principles and Processes  
 Chapter 12: Biotechnology and its Applications

### Final Term

- **Unit VIII : Biology in Human Welfare**  
 Chapter 8: Human Health & Disease  
 Chapter 9: Strategies for Enhancement in Food Production  
 Chapter 10: Microbes in Human Welfare
- **Unit IX : Biotechnology**  
 Chapter 11: Biotechnology: Principles and Processes  
 Chapter 12: Biotechnology and its Applications
- **Unit X : Ecology**  
 Chapter 13: Organism and Populations  
 Chapter 14: Ecosystem  
 Chapter 15: Biodiversity and Conservation  
 Chapter 16: Environmental Issues

## PHYSICAL EDUCATION

### Periodic Test 1

- Management of sporting events.
- Children and women in sports.
- Yoga as preventive measures for lifestyle disease.

### Half Yearly Exam

- Management of sporting events.
- Children and women in sports.
- Yoga as preventive measures for lifestyle disease.
- Physical education and sports for CWSN with special needs.
- Sports and nutrition.

### Periodic Test 2

- Test and measurement in sports.
- Physiology and injuries in sports.
- Biomechanics and sports.

### Final Term

- Management of sporting events.
- Children and women in sports.
- Yoga as preventive measures and lifestyle disease.
- Physical education and sports for CWSN and with special needs.
- Sports and nutrition.
- Test and measurement ten sports.
- Physiology and injuries in sports.
- Biomechanics and sports.
- Psychology and sports.
- Training in sports.

# Chemistry

## **Periodic Test 1**

Chapter 1: Solution  
Chapter 2: Electrochemistry  
Chapter 3: Chemical kinetics

## **Half Yearly Exam**

Chapter 1: Solution  
Chapter 2: Electrochemistry  
Chapter 3: Chemical kinetics  
Chapter 4: The d- and f-Block elements  
Chapter 5: Coordination compounds

## **Periodic Test-2:**

Chapter 7: Haloalkanes and Haloarenes  
Chapter 8: Alcohol, Phenol and Ethers  
Chapter 9: Aldehydes, Ketones and Carboxylic acid

## **Final Term**

Chapter 1: solution  
Chapter 2: Electrochemistry  
Chapter 3: Chemical kinetic  
Chapter 4: The d-and f-Block elements  
Chapter 5: Coordination compounds  
Chapter 6: Haloalkanes, and Haloarenes  
Chapter 7: Alcohol, Phenol and Ethers  
Chapter 8: Aldehydes, Ketones and Carboxylic acids  
Chapter 9: Amines and Benzene diazonium chloride  
Chapter 10: Biomolecules

## **PAINTING-( 049)-**

## **Periodic Test 1**

1. Introduction to Indian Miniature Schools  
2. Rajasthani School of Miniature Painting  
3. Pahari School of Miniature Painting

## **Half Yearly Exam**

### **Theory**

1. Introduction to Indian Miniature Schools  
2. Rajasthani School of Miniature Painting  
3. Pahari School of Miniature Painting  
4. Mughal School of Miniature Painting  
5. Deccan School of Miniature Painting  
6. New Era in Indian Art

### **Practical**

Nature and Object Study  
Painting Composition  
Portfolio Assessment

## **Periodic Test-2:**

1. National Flag of Indian and the Symbolic Significance of its forms and Colours  
2. The Bengal School of Painting  
3. Contribution by the Indian Artists towards National Freedom Movement

## **Final Term**

### **Theory**

1. Introduction to Indian Miniature Schools  
2. Rajasthani School of Miniature Painting  
3. Pahari School of Miniature Painting  
4. Mughal School of Miniature Painting  
5. Deccan School of Miniature Painting  
6. New Era in Indian Art  
7. National Flag of Indian and the Symbolic Significance of its forms and Colours  
8. The Bengal School of Painting  
9. Contribution by the Indian Artists towards National Freedom Movement  
10. Introduction to Modern Trends in Indian Art  
11. Paintings of Contemporary Indian Artists  
12. Graphic- Prints of Contemporary Indian Artists  
13. Sculptures of Contemporary Indian Artists

### **Practical**

Nature and Object Study  
Painting Composition  
Portfolio Assessment

## English

### Periodic Test 1

#### **1. Book - Flamingo**

Prose : The Last Lesson

Poem : My Mother at Sixty-six

#### **2. Book - Vistas**

Chapter 1-The Third Level

### Half Yearly Exam

#### **A. Book - Flamingo:**

##### **Prose :**

1. The Last Lesson
2. Lost Spring
3. Deep Water
4. The Rattrap

##### **Poems :**

1. My Mother at Sixty-six
2. Keeping Quiet
3. A Thing of Beauty

#### **B. Book : Vistas**

Chapter 1- The Third Level

Chapter 2- The Tiger King

Chapter 3- Journey to the end of the Earth

### Periodic Test-2:

#### **1. Book - Flamingo**

Prose - Indigo

Poem - A Roadside Stand

#### **2 Book - Vistas**

Chapter 4: The Enemy

### Final Term

#### **A. Book- Flamingo:**

##### **Prose :**

5. Indigo
6. Poets and pancakes
7. The Interview- Part 1 & Part 2
8. Going Places

##### **Poems :**

5. A Roadside Stand
6. Aunt Jennifer's Tiger

#### **B. Book- Vistas**

Chapter 4- The Enemy

Chapter 5- On the face of It

Chapter 6- Memories of Childhood

### **Grammar**

- I. Reading Comprehension through unseen passage.
- II. Creative Writing Skills.