



# **OPEN MINDS - A BIRLA SCHOOL**

**KANKARBAGH, PATNA**

## **SYLLABUS OF SESSION 2019 - 20**

**GRADE - 11**

### **INFORMATICS PRACTICES**

#### **MID - TERM**

- Chapter :- 1      **Basic Computer Organization**
- Chapter :- 2      **Data Representation - Basic Concept**
- Chapter :- 3      **Getting Started with Python**
- Chapter :- 4      **Python Fundamentals**

#### **POST - MID TERM**

- Chapter :- 5      **Data Handling**
- Chapter :- 6      **Conditional and Iterative statements**
- Chapter :- 7      **Text Handling**
- Chapter :- 8      **List Manipulation**
- Chapter :- 9      **Dictionaries**
- Chapter :- 10     **Working with NumPy**

#### **FINAL TERM**

- Chapter :- 11     **Relational Databases**
- Chapter :- 12     **Simple Queries in SQL**
- Chapter :- 13     **Table Creation and Data Manipulation Commands**
- Chapter :- 14     **Cyber Safety**
- Chapter :- 15     **Online Access and Computer Security**

# ENGLISH

## MID TERM

### LITERATURE

#### **Hornbill**

The Portrait of a Lady

The Photograph

We're not afraid to Die.....if We Can All Be Together

The Laburnum Top

#### **Snapshot**

The Summer of the Beautiful White Horse

The Address

#### **Writing Section**

Note Making

Summarising

Essay

Notice

### **GRAMMAR**

Integrated Grammar

## **POST MID TERM**

### **LITERATURE**

#### **Hornbill**

Landscape of the Soul

Discovering Tut: The Saga Continues

The Voice of the Rain

The Ailing Planet: The Green Movement's Role

The Browning Version

Childhood

#### **Snapshot**

Ranga's Marriage

Albert Einstein at School

### **Writing Section**

Letter

Article

### **GRAMMAR**

Integrated Grammar

## **FINAL TERM**

### **Hornbill**

The Adventure

Silk Road

Father to Son

### **Snapshot**

Mother's Day

The Ghat of the Only World

Birth

The tale of the Melon City

### **Writing Section**

Letter

### **GRAMMAR**

Integrated Grammar

# **MATHEMATICS**

## **MID TERM**

1. SETS
2. RELATIONS AND FUNCTIONS
3. TRIGONOMETRIC FUNCTIONS
4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS

## **POST –MID TERM**

5. PRINCIPLE OF MATHEMATICAL INDUCTION
6. LINEAR INEQUALITIES
7. PERMUTATIONS AND COMBINATIONS
8. SEQUENCE AND SERIES
9. STRAIGHT LINES
10. LIMITS AND DERIVATIVES

## **FINAL TERM**

11. BINOMIAL THEOREM
12. CONIC SECTIONS( circle , parabola , ellipse , hyperbola)
13. INTRODUCTION TO THREE- DIMENSIONAL GEOMETRY
14. STATISTICS
15. PROBABILITY
16. MATHEMATICAL REASONING

# **PHYSICS**

## **MID TERM**

- Chapter– 0 : Mathematical Tools
- Chapter– 1: Physical World and Measurement
- Chapter– 2: Units and Measurements
- Chapter– 3: Motion in a Straight Line

## **POST - MID TERM**

- Chapter– 4: Motion in a Plane
- Chapter– 5: Laws of motion
- Chapter– 6: Work, Energy and Power
- Chapter– 7: System of Particles and Rotational Motion

## **FINAL TERM**

- Chapter– 8: Gravitation
- Chapter– 9: Mechanical Properties of Solids
- Chapter– 10: Mechanical Properties of Fluids
- Chapter– 11: Thermal Properties of Matter
- Chapter– 12: Thermodynamics
- Chapter– 13: Kinetic Theory
- Chapter– 14: Oscillations
- Chapter– 15: Waves

# **CHEMISTRY**

## **MID TERM**

- CHAPTER 1: SOME BASIC CONCEPT OF CHEMISTRY.
- CHAPTER 2: STRUCTURE OF AN ATOM.
- CHAPTER 3: CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES.
- CHAPTER 4: CHEMICAL BONDING AND MOLECULAR STRUCTURE

## **POST - MID TERM**

- CHAPTER 5: STATES OF MATTER .
- CHAPTER 6: THERMODYNAMICS.
- CHAPTER 7: EQUILIBRIUM .
- CHAPTER 8: REDOX REACTION.
- CHAPTER 9: HYDROGEN .

## **FINAL TERM**

- CHAPTER 10 : S BLOCK ELEMENTS .
- CHAPTER 11 : P BLOCK ELEMENTS .
- CHAPTER 12: BASIC CONCEPTS OF ORGANIC CHEMISTRY.
- CHAPTER 13 : HYDROCARBONS .
- CHAPTER 14 : ENVIRONMENTAL CHEMISTRY.

# **BIOLOGY**

## **MID TERM**

### **UNIT - 1 Diversity in the living world**

1. The living world.
2. Biological classification.
3. Plant kingdom.
4. Animal kingdom.

### **UNIT - 2 Structural organization of plants and animals**

5. Morphology of flowering plants.
6. Anatomy of flowering plants.
7. Structural organization in animals.

## **POST MID TERM**

### **UNIT - 3 Cell structure and function**

8. Cell: The Unit of life.
9. Bio-molecules.
10. Cell cycle and cell division.

### **UNIT - 4 Plant physiology**

11. Transport in plants.
12. Mineral nutrition.
13. Photosynthesis in higher plants.
14. Respiration in plants.
15. Plant growth and development.



## **FINAL TERM**

### **UNIT - 5 Human physiology**

16. Digestion and absorption.
17. Breathing and exchange of gases.
18. Body fluids and circulation.
19. Excretory products and their elimination.
20. Locomotion and movement.
21. Neural control and coordination.
22. Chemical coordination and integration.