

**D.A.V. PUBLIC SCHOOL, AIROLI**  
**SYLLABUS BOOKLET-2024-25**  
**STD- XI(Science)**

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**Class Test-1 (Marks-25) (Aug 2024)**

**Sub: English**

- Topics: 1) The portrait of a lady-Hornbill  
2) A photograph-Hornbill  
3) The summer of the beautiful white horse - Snapshot  
4) Note - making - writing skills  
5) Tenses-Grammar  
6) Poster Designing

**Sub: Physics**

- Topics: 1)Units and measurements  
2)Motion in a straight line  
3) Motion in plan  
4) laws of motion

**Sub: Chemistry**

- Topics: 1)Some Basic concepts of Chemistry  
2) Structure of atom

**Sub: Biology**

- Topics: 1) The Living world  
2)Biological Classification  
3)Plant Kingdom  
4) Animal Kingdom

**Sub: Computer Science**

- Topics: 1) Computer System Overview  
2) Data Representation

**Sub: Physical Education**

- Topics: 1)Changing Trends and Career in Physical Education  
2)Olympism Value Education

**Sub: Mathematics**

- Topics: 1) Sets  
2) Relations and Functions  
3) Trigonometric functions

**Sub: Psychology**

- Topics:  
1) What is Psychology  
2) Methods of Enquiry in Psychology

## **First Term Examination (Marks-80/70) (Sept 2024)**

**Sub: English**

**Topics: Reading : Comprehension passages, Note Making**

**Literature:-**

**Hornbill**

• **The Portrait of a Lady (Prose)**

• **A Photograph (Poem)**

• **“We’re Not Afraid to Die... if We Can be Together”** • **Discovering Tut: the Saga Continues**

• **The Laburnum Top (Poem)** • **The Voice of the rain**

**Snapshots:**

• **The Summer of the Beautiful White Horse (Prose)** • **The Address (Prose)**

**Grammar - 1) Questions on Gap filling (Tenses)**

**2) Questions on re-ordering/transformation of sentence**

**Writing Skills**

**Poster designing**

**Classified Advertisements**

**Speech writing**

**Debate writing**

**Sub: Physics**

Topics: 1) Units and Measurements

2) Motion in a straight line

3) Motion in a plane

4) Laws of motion

5) work, energy and power

6) system of particles

**Sub: Chemistry**

Topics: 1) Some basic concepts of Chemistry

2) Structure of atom

3) Classification of elements and Periodicity in Properties

4) Chemical Bonding and Molecular Structure

5) Redox Reactions

**Sub: Biology chapters**

1) Morphology of Flowering plants

2) Anatomy of Flowering Plants

3) Structural Organisation in Animals

4) Cell: The unit of life.

5) Biomolecules

6) Cell Cycle and Cell Division

7) The Living world

- 8) Biological Classification
- 9) Plant Kingdom
- 10) Animal Kingdom

**Sub: Computer Science**

- Topics:
- 1) Computer System Overview
  - 2) Data Representation
  - 3) Introduction to Problem solving
  - 4) Getting started with Python
  - 5) Python Fundamentals
  - 6) Data Handling
  - 7) flow of control
  - 8) String Manipulation
  - 9) Cyber Safety

**Sub: Physical Education**

- Topics:
- 1) Changing Trends and Career in Physical Education
  - 2) Olympism
  - 3) Physical Fitness, Wellness and Lifestyle
  - 4) Physical Education and Sports for CWSN
  - 5) Yoga
  - 6) Test, Measurement and Evaluation

**Sub: Mathematics**

- Topics:
- 1) Sets
  - 2) Relations and Functions
  - 3) Trigonometric functions
  - 4) Complex numbers
  - 5) Linear inequalities
  - 6) Permutations and Combinations
  - 7) Binomial Theorem
  - 8) Sequences and series.

**Sub: Psychology**

- Topics:
- 1) What is Psychology
  - 2) Methods of Enquiry in Psychology
  - 3) Human Development
  - 4) Sensory, Attention and Perceptual Processes
  - 5) Learning

## Class Test-2 (Marks-25) (Dec 2024)

### Sub: English

Topics: 1)Hornbill

The Voice of the Rain (Poem)

The Adventure

### Snapshots:

Mother's Day (play)

**Grammar** -Question on Gap filling (Clauses)

**Writing Skills** - Classified Advertisements/poster

**Reading:** comprehension passage/ notemaking

### Sub: Physics

Topics: 1) Gravitation

2) Properties of bulk matter

### Sub: Chemistry

Topics: 1) Organic Chemistry:Some basic Principles and Techniques

2) Hydrocarbons

### Sub: Biology

Topics: 1) Photosynthesis in Higher Plants

2) Respiration in Plants

3) Plant growth and development

### Sub: Computer Science

Topics: 1) List Manipulation

2) Tuples

3) Dictionaries

### Sub: Physical Education

Topics: 1)Test,Measurement and Evaluation

2)Fundamentals of Anatomy and Physiology in Sports

### Sub: Mathematics

Topics: 1) Straight Lines

2) Limits and Derivatives.

3) Introduction to three dimensional Geometry

### Sub: Psychology

Topics:

6) Human Memory

7) Thinking

## Preboard Examination(Marks-80/70) (Jan 2025)

### Sub: English

Topics: Reading : Comprehension passages,Note Making

Hornbill

- The Portrait of a Lady (Prose)
- A Photograph (Poem)
- “We’re Not Afraid to Die... if We Can be Together •Discovering Tut: the Saga Continues
- The Laburnum Top (Poem)
- The Voice of the Rain (Poem)
- Childhood (Poem)
- The Adventure
- Silk Road (Prose)
- Father to Son
- Snapshots:
  - The Summer of the Beautiful White Horse (Prose) • •The Address (Prose)
  - Mother’s Day (Play)
  - Birth ( Prose)
- The Tale of Melon City(poem)

Grammar - 1) Questions on Gap filling (Tenses, Clauses)

2)Questions on re-ordering/transformation of sentence

Writing Skills

Poster designing

Classified Advertisements

Speech writing

Debate writing

### Sub: Physics

Topics: 1)Units and Measurements

2)Motion in a straight line

3)Motion in a plane

4)Laws of motion

5)Work Energy and Power

6)System of particles and Rotational motion

7)Gravitation

8)Mechanical properties of solids

9)Mechanical properties of fluids

10)Thermal properties of matter

11) Thermodynamics

12) Behaviour of perfect gas and kinetic theory

13) Oscillations

14) Waves

**Sub: Chemistry**

Topics:

- 1) Some basic Concepts of Chemistry
- 2) Structure of atom
- 3) Classification of elements and Periodicity in Properties
- 4) Chemical Bonding and Molecular Structure
- 5) Organic chemistry: Some basic Principles and Techniques
- 6) Redox Reactions
- 7) Hydrocarbons
- 8) Thermodynamics
- 9) Equilibrium

**Sub: Biology**

Topics: 1) The Living World

- 2) Biological Classification
- 3) Plant Kingdom
- 4) Animal Kingdom
- 5) Morphology of Flowering Plants
- 6) Anatomy of Flowering Plants
- 7) Structural Organisation in Animals (only Frog)
- 8) Cell: Structure and Function
- 9) Biomolecules
- 10) Cell Cycle and Cell Division
- 11) Photosynthesis in Higher Plants
- 12) Respiration in Plants
- 13) Plant - Growth and Development
- 14) Breathing and Exchange of Gases
- 15) Body Fluids and Circulation
- 16) Excretory Products and their Elimination
- 17) Locomotion and Movement
- 18) Neural Control and Coordination
- 19) Chemical Coordination and Integration

**Sub: Computer Science**

Topics: 1) Computer System Overview

- 2) Data Representation
- 3) Introduction to Problem solving
- 4) Getting started with Python
- 5) Python Fundamentals
- 6) Data Handling
- 7) Flow of Control
- 8) String Manipulation
- 9) List Manipulation
- 10) Tuples
- 11) Dictionaries
- 12) Cyber Safety
- 13) Online Access & Computer Security
- 14) Society, Law & Ethics

**Sub: Physical Education**

- Topics:
- 1) Changing Trends and Career in Physical Education
  - 2) Olympic Value Education
  - 3) Yoga
  - 4) Physical Education and Sports for CWSN
  - 5) Physical Fitness, Health and Wellness
  - 6) Test, Measurement and Evaluation
  - 7) Fundamentals of Anatomy and Physiology in Sports
  - 8) Fundamentals of Kinesiology and Biomechanics in Sports
  - 9) Psychology and Sports

**Sub: Mathematics**

- Topics:
- 1) Sets.
  - 2) Relations and Functions.
  - 3) Trigonometric Functions.
  - 4) Complex Numbers and Quadratic Equations.
  - 5) Linear Inequalities.
  - 6) Permutations and Combinations.
  - 7) Binomial Theorem.
  - 8) Sequence and Series
  - 9) Straight Lines
  - 10) Conic Sections
  - 11) Introduction to 3D geometry
  - 12) Limits and Derivatives
  - 13) Statistics
  - 14) Probability

**Sub: Psychology**

- Topics:
- 1) What is Psychology
  - 2) Methods of Enquiry in Psychology
  - 3) Human Development
  - 4) Sensory, Attention and Perceptual Processes
  - 5) Learning
  - 6) Human Memory
  - 7) Thinking
  - 8) Motivation and Emotion

## Final Examination(Marks-80/70) (Feb-March 2025)

### Sub: English

#### Hornbill

- The Portrait of a Lady (Prose)
- A Photograph (Poem)
- “We’re Not Afraid to Die... if We Can be Together •Discovering Tut: the Saga Continues
- The Laburnum Top (Poem)
  - The Voice of the Rain (Poem)
- Childhood (Poem)
- The Adventure
- Silk Road (Prose)
- Father to Son
- Snapshots:
  - The Summer of the Beautiful White Horse (Prose) • •The Address (Prose)
  - Mother’s Day (Play)
  - Birth ( Prose)
  - The Tale of Melon City(poem)

Grammar - 1) Questions on Gap filling (Tenses, Clauses)

2)Questions on re-ordering/transformation of sentence

#### Writing Skills

Poster designing

Classified Advertisements

Speech writing

Debate writing

Note making

### Sub: Physics

Topics: 1)Units and Measurements

2)Motion in a straight line

3)Motion in a plane

4)Laws of motion

5)Work Energy and Power

6)System of particles and Rotational motion

7)Gravitation

8)Mechanical properties of solids

9)Mechanical properties of fluids

10)Thermal properties of matter

11)Thermodynamics

12)Behaviour of perfect gasses and Kinetic theory of gasses

13)Oscillations

14)Waves

### Sub: Chemistry

Topics: 1)Some basic Concepts of Chemistry

2)Structure of atom

3)Classification of elements and Periodicity in Properties



- 4) Chemical Bonding and Molecular Structure
- 5) Organic chemistry: Some basic Principles and Techniques
- 6) Redox Reactions
- 7) Hydrocarbons
- 8) Chemical Thermodynamics
- 9) Equilibrium

### **Sub: Biology**

- Topics:
- 1) The Living World
  - 2) Biological Classification
  - 3) Plant Kingdom
  - 4) Animal Kingdom
  - 5) Morphology of Flowering Plants
  - 6) Anatomy of Flowering Plants
  - 7) Structural Organisation in Animals (only Frog)
  - 8) Cell: Structure and Function.
  - 9) Biomolecules
  - 10) Cell Cycle and Cell Division
  - 11) Photosynthesis in Higher Plants
  - 12) Respiration in Plants
  - 13) Plant - Growth and Development
  - 14) Breathing and Exchange of Gases
  - 15) Body Fluids and Circulation
  - 16) Excretory Products and their Elimination
  - 17) Locomotion and Movement
  - 18) Neural Control and Coordination
  - 19) Chemical Coordination and Integration

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- Topics:
- 1) Computer System Overview
  - 2) Data Representation
  - 3) Introduction to Problem solving
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  - 5) Python Fundamentals
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  - 8) String Manipulation
  - 9) List Manipulation
  - 10) Tuples
  - 11) Dictionaries
  - 12) Cyber Safety
  - 13) Online Access & Computer Security
  - 14) Society, Law & Ethics

### **Sub: Physical Education**

- Topics:
- 1) Changing Trends and Career in Physical Education
  - 2) Olympism
  - 3) Yoga

- 4) Physical Education and Sports for CWSN
- 5) Physical Fitness, Health and Wellness
- 6) Test, Measurement and Evaluation
- 7) Fundamentals of Anatomy and Physiology in Sports
- 8) Fundamentals of Kinesiology and Biomechanics in Sports
- 9) Psychology and Sports
- 10) Training and Doping in Sports

**Sub: Mathematics**

Topics: 1) Sets.

2) Relations and Functions.

3) Trigonometric Functions.

4) Complex Numbers and Quadratic Equations.

5) Linear Inequalities.

6) Permutations and Combinations.

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5) Learning

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7) Thinking

8) Motivation and Emotion