

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

Class Test-1 (Marks-25) (June 2024)

Sub: English

Topics: 1) VISTAS: 1. THE THIRD LEVEL
2) FLAMINGO: 1. THE LAST LESSON
3) FLAMINGO: POEM-MY MOTHER AT 66.
4) WRITING: NOTICE
5) COMPREHENSION PASSAGE

Sub: Physics

Topics: 1) Electric charges and fields
2) Electric potential and capacitance

Sub: Chemistry

Topics: 1) Electrochemistry
2) Haloalkanes and Haloarenes

Sub: Mathematics

Topics: 1) Matrices
2) Determinants
3) Linear programming problem.

Sub: Biology

Topics: 1) Principles of Inheritance and Variation
2) Molecular Basis of Inheritance

Sub: Computer Science

Topics: 1) Python Review (Basics)
2) Python Review (Lists, Tuples, Dictionary)

Sub: Physical Education

Topics: 1) Management
of Sporting Events.
2) Children and Women
in Sports.

Sub: Psychology

Topics: 1) Variations in Psychological attributes

2) Self and Personality

Class Test-2 (Marks-25) (August 2024)

Sub: English

Topics: 1) FIAMINGO:THE LOST SPRING
2)FIAMINGO:POEM-KEEPING QUIET
3)VISTAS:THE TIGER KING
4)WRITING:INVITATION AND REPLIES
5)COMPREHENSION PASSAGE

Sub: Physics

Topics: 1)Current electricity
2)Moving charges and magnetism

Sub: Chemistry

Topics: 1)Chemical kinetics
2)Alcohols phenols and ethers

Sub: Mathematics

Topics: 1)Continuity and differentiability
2) Application of derivatives
3) indefinite integrals (Ex 7.1 and Ex 7.2 only)

Sub: Biology

Topics: 1) Molecular Basis of Inheritance
2) Evolution

Sub: Computer Science

Topics: 1) Functions
2) Python Libraries
3) File Handling (Text files)

Sub: Physical Education

- Topics: 1) Yoga as Preventive measure for Lifestyle Disease.
2) Physical Education and Sports for CWSN.

Sub: Psychology

- Topics: 1) Variations in Psychological attributes
2) Self and Personality
3) Meeting life Challenges

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

Sub: English

- Topics: 1. Reading Comprehension through Unseen Passage.
2. Writing : Notice, Formal/Informal Invitation & replies, application for a job with bio-data, Letter to the Editor, Article, Report.
3. literature: Flamingo: The Last Lesson, Lost Spring, Deep Water, The Rattrap, Indigo, (Poetry) My Mother at Sixty-Six, Keeping Quiet, A Thing of Beauty
4. Vistas: The Third Level, The Tiger King, Journey to the end of the Earth

Sub: Physics

- Topics: 1) Electric charges and fields
2) Electric potential and capacitance
3) Current electricity
4) Moving charges and magnetism
5) Magnetism and matter
6) EMI and AC
7) EMW

Sub: Chemistry

- Topics: 1) Electrochemistry
2) Haloalkanes and Haloarenes
3) Chemical kinetics
4) Alcohols phenols and ethers
5) d and f-block elements
6) Solutions

Sub: Mathematics

- Topics: 1) Relations and functions
2) Inverse trigonometric functions
3) Matrices
4) Determinants
5) Linear programming problem
6) continuity and Differentiability
7) Application of Derivatives
8) Integrals

Sub: Biology

- Topics: 1) Principles of Inheritance and Variation
2) Molecular Basis of Inheritance
3) Evolution
4) Biotechnology - Its Principles
5) Biotechnology - Its Application
6) Reproduction in Flowering Plants
7) Human Reproduction
8) Reproductive Health

Sub: Computer Science

- Topics: 1) Review of Python Basics
2) Functions, libraries
3) Data file Handling(text and binary)
4) Introduction to Database
5) Programming with SQL

Sub: Physical Education

- Topics: 1) Management of Sporting Events.
2) Children and Women in Sports.
3) Yoga as Preventive measure for Lifestyle Disease.
4) Physical Education and Sports for CWSN.
5) Sports and Nutrition.
6) Test & Measurement in sports.
7) Physiology & Injuries in sports.
8) Biomechanics & Sports.

Sub: Psychology

- Topics: 1) Variations in Psychological attributes
2) Self and Personality
3) Meeting life Challenges
4) Psychological Disorders

I- Preboard Dec- 2024 Examination(Marks-80/70) Dec - 24

Sub: English

- Topics: 1. Reading Comprehension through Unseen Passage.
2. Writing : Notice, Formal/Informal Invitation and Replies, application for a job with bio-data, Letter to the editor, Article, Report.
3. literature: Flamingo: (Prose) The Last Lesson, Lost Spring, Deep Water, The Rattrap, Indigo, Poets and Pancakes, The Interview, Going Places. (Poetry) My Mother at Sixty-Six, Keeping Quiet, A Thing of Beauty, A road side stand, Aunt Jennifer's Tigers.
4. Literature Vistas: The Third Level, The Tiger King, Journey to the end of the Earth, The Enemy, On the Face of It, Memories of childhood.

Sub: Physics

- Topics: 1) Electric charges and fields
2) Electric potential and capacitance
3) Current electricity
4) Moving charges and magnetism
5) Magnetism and matter
6) Electromagnetic induction
7) Alternating current
8) Electromagnetic
9) Ray optics and optical instruments
10) Wave optics
11) Dual nature of radiation and matter
12) Atoms
13) Nuclei
14) Electronic devices

Sub: Chemistry

- Topics: 1) Electrochemistry
2) Haloalkanes and Haloarenes
3) Chemical kinetics
4) Alcohols phenols and ethers
5) d and f-block elements
6) Coordination compounds
7) Aldehydes ketones and carboxylic acids
8) Solutions
9) Amines
10) Biomolecules

Sub: Mathematics

- Topics:
- 1) Relations and Functions
 - 2) Inverse trigonometric functions
 - 3) Matrices
 - 4) Determinants
 - 5) Continuity and Differentiability
 - 6) Applications of Derivatives
 - 7) Integration
 - 8) Application of Integrals
 - 9) Differential equations
 - 10) Vectors
 - 11) 3 Dimensional Geometry
 - 12) probability
 - 13) Linear programming problem.

Sub: Biology

- Topics:
- 1) Principles of Inheritance and Variation
 - 2) Molecular Basis of Inheritance
 - 3) Evolution
 - 4) Biotechnology - Its Principles
 - 5) Biotechnology - Its Application
 - 6) Reproduction in Flowering Plants
 - 7) Human Reproduction
 - 8) Reproductive Health
 - 9) Human Health and Diseases
 - 10) Microbes in Human Welfare
 - 11) Organisms and Populations
 - 12) Ecosystem
 - 13) Biodiversity and Conservation

Sub: Computer Science

- Topics:
- 1) Python Review (Basics)
 - 2) Python Review (Lists, Tuples, Dictionary)
 - 3) Functions
 - 4) Data file Handling
 - 5) Data structure
 - 6) Introduction to Database
 - 7) Programming with SQL
 - 8) Joins in SQL
 - 9) Computer Networks

Sub: Physical Education

- Topics:
- 1) Management of Sporting Events.
 - 2) Children and Women in Sports.
 - 3) Yoga as Preventive

measure for Lifestyle Diseases.

- 4) Physical Education and Sports for CWSN.
- 5) Sports and Nutrition.
- 6) Test & Measurement in Sports.
- 7) Physiology and Injuries in sport.
- 8) Biomechanics and sports.
- 9) Psychology and Sports.
- 10) Training in Sports.

Sub: Psychology

- Topics: 1) Variations in Psychological Attributes
- 2) Self and Personality
 - 3) Meeting life challenges
 - 4) Psychological Disorders
 - 5) Therapeutic Approaches
 - 6) Attitude and Social Cognition
 - 7) Social Influence and Group Processes

II- Preboard Jan- 2025 Examination(Marks-80/70) Jan - 25

Same Syllabus as Preboard- 1