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 biodata, 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 biodata, 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

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