# ST. FRANCIS CO-ED SCHOOL, BARRAI, BHOPAL CLASS-XI (A/B) **SYLLABUS 2025-26**

### **ENGLISH**

PT-I (Hornbill) Lesson-1 The Portrait of a Lady Lesson-2 we're Not Afraid to Die...if We can All Be Together (Snapshot) Lesson-1 The Summer of the Beautiful White Horse Lesson-2 The address (Poem) 1. A photograph (Grammar) Tenses Modals Transformation of sentences Subject-verb Concord and General Grammar (Writing skills) Speech

### Term-1

(Hornbill) Lesson-1 to 2 Lesson-3 Discovering Tut: Saga continues

### (Snapshot)

Lesson-1 The Summer of the Beautiful White Horses Lesson-2 The Address Lesson- 3 Mother's Day.

### (Poem)

1. A Photograph 2. The Laburnum Top 3. The voice of the Rain

(Writing skills) Advertisement Speech

### (Grammar)

Tenses Modals Transformation of sentences Subject-verb General grammar

### <u> PT-II</u>

(Hornbill) Lesson- 4 The Adventure

(Snapshot) Lesson-3 Mother's Day

#### (Poem)

Childhood
 Father to Son

### (Grammar)

Tenses Modal verbs Transformation of sentences Subject verb Concord

#### (Writing skills)

Advertisement Speech Poster

### <u>Term-II</u>

(Hornbill) Lesson-1 to 4 Lesson- 5 The Adventure Lesson-6 Silk Road (Snapshots) Lesson-1 to 4 Lesson-5 Birth Lesson-6 The Tale of Melon City

#### Poem)

- A Photograph
  The Laburnum Top
  The Voice of the Rain
  Childhood
- 5. Father to son

#### (Grammar)

Tenses Modals verb Transformation of sentences Subject-verb Concord

### (Writing skills)

Advertisement Poster Speech Debate

### **MATHEMATICS**

### <u> PT- I</u>

Chapter-1 Sets Chapter-2 Relations and functions

### <u>Term-I</u>

Chapter-1 Sets Chapter-2 Relations and functions Chapter-3 Trigonometry Chapter-4 Principal of mathematical induction Chapter-5 Complex Numbers Chapter-6 Linear inequalities Chapter-7 Permutations and Combinations Chapter -8 Binomial

### <u> PT-II</u>

Chapter -9 Sequence and series Chapter -10 Straight lines

### <u>Term-II</u>

Chapter-1 Sets

Chapter-2 Relations and functions

Chapter-3 Trigonometric functions

Chapter-4 Principal of mathematical induction

Chapter-5 Complex Numbers and Quadratic Equations

Chapter-6 Linear Inequalities

Chapter-7 Permutations and Combinations

Chapter -8 Binomial Theorem

Chapter -9 Sequence and series

Chapter -10 Straight lines

Chapter-11 Conic Sections

Chapter -12 Introduction to Three-dimensional geometry

Chapter- 13 Limits and derivatives

Chapter- 14 Statistics

Chapter -15 Probability

# **BIOLOGY**

### <u> PT-I</u>

- 1. The living world
- 2. The biological classification
- 3. Plant Kingdom

### <u>Term-I</u>

- 1. Chapter 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 organization in animals
- 8. Cell the unit of life
- 9. Biomolecules
- 10. Cell division

# <u> PT-II</u>

- 1. Chapter 13 Photosynthesis in higher plants
- 2. Chapter 14 Respiration in plants

# <u>Term-II</u>

Chapter 1-14

Chapter 15 Plant growth and regulator

Chapter 17Breathing

Chapter 18 Circulation

Chapter 19 Excretory production Chapter

Chapter 20 Location and movement

Chapter 21 Neural control and co-ordination

Chapter 22-Chemical co-ordination and integration

# **PHYSICS**

# <u> PT-I</u>

CH-1 Units and measurements

CH-2 Motion in a straight line

# <u>TERM-I</u>

- CH-3 Motion in a plane
- CH-4 Laws of motion
- CH-5 Work, Energy and Power
- CH-6 System of particles and rotational motion
- CH-7 Gravitation

# <u> PT-II</u>

CH-8 Mechanical properties of solids CH-9 Mechanical properties of fluids **TERM-II** 

CH-10 Thermal properties of matter CH-11 Thermodynamics CH-12 Kinetic theory CH -13 Oscillations CH-14 Waves

### **CHEMISTRY**

### <u> PT-I</u>

CH-1 Some basic concepts in chemistry

### <u>TERM-I</u>

CH-2 Structure of atom

CH-3 Periodic classification of elements

CH-4 Chemical bonding and molecular structure

CH-5 Chemical thermodynamics

### <u> PT-II</u>

CH-6 Chemical equilibrium

### <u>TERM-II</u>

CH-7 Redox reactions

CH-8 Some basic concepts in organic chemistry

CH-9 Hydrocarbon

# **PHYSICAL EDUCATION -**

### <u> PT-I</u>

Chapter 1 -Changing trends and career in Physical Educational Chapter 2- Olympic value education

### <u>Term -I</u>

Chapter 1 -Changing trends and career in Physical Educational

Chapter 2- Olympic value education

Chapter 3- Physical fitness, wellness and lifestyle

Chapter 4 - Physical Education and sports for CWSN

Chapter 5- Yoga

### <u> PT-II</u>

Chapter 6 – Fundamentals of kinesiology & Biomechanics in sports

Chapter 7- Test, measurement and evaluation

### <u>Term-II</u>

Chapter 1 -Changing trends and career in Physical Educational

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Chapter 3- Physical fitness, wellness and lifestyle

Chapter 4 - Physical Education and sports for CWSN

Chapter 5- Yoga

Chapter 6 - Fundamentals of kinesiology & Biomechanics in sports

Chapter 7- Test, measurement and evaluation

Chapter 8- Fundamentals of anatomy physiology and kinesiology in sports

Chapter 9- Psychology and sports

Chapter 10- Training and doping in sports

# **APPLIED MATHEMATICS**

## <u> PT-I</u>

Unit 1: Number, Quantification and Numerical Applications Numbers and Quantification

- Simple applications of logarithm and antilogarithm
- Laws and properties of logarithms
- Indices, logarithms and antilogarithms
- Binary numbers

#### **Numerical Applications**

- Seating arrangement
- Mensuration
- Time, work and distance
- Calendar
- Clock
- Averages

### <u>TERM-I</u>

#### Numbers and Quantification

- Simple applications of logarithm and antilogarithm
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- Binary numbers Numerical Applications
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- Averages

#### Unit 2: Algebra

Sets

- Operations on sets
- Venn's diagrams
- Intervals
- Subsets
- Types of sets and their notations
- Representation of sets
- Introduction to sets definition

#### Relations

- Relations
- Cartesian product of two sets
- Ordered pairs

#### Sequence and series

- Applications of AP and GP
- Geometric progression
- Arithmetic progression
- Sequence and series

#### Permutations and combinations

- Combinations
- Permutations
- Fundamental principle of counting
- Factorial

#### **Unit 3: Mathematical Reasoning**

• Logical Reasoning

#### Unit 4: Calculus

- Derivatives of algebraic functions using chain rule
- Differentiation as a process of finding derivative
- Instantaneous rate of change
- Concepts of limits and continuity of a function
- Graphical representation of functions
- Types of functions
- Domains and range of functions
- Functions

### <u> PT- II</u>

#### **Unit 5: Probability**

- Bayes theorem
- Total probability
- Conditional probability
- Event
- Random experiment and sample space
- Introduction

### <u>TERM-II</u>

Unit 1: Number, Quantification and Numerical Applications

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### **Unit 6: Descriptive Statistics**

- Correlation
- Percentile rank and quartile rank
- Data interpretation
- Skewness and kurtosis
- Measure of dispersion

### **Unit 7: Financial Mathematics**

- Calculation and interpretation of electricity bill, water supply bills and other bills
- Bills, tariff rates, fixed charges, surcharge, service charge
- Tax, calculation of tax, simple applications of tax calculations in Goods and Services tax, income tax
- Simple applications of regular annuities [upto 3 periods]
- Annuities, calculating regular annuities
- Present value, net present value and future value
- Effective rate of interest
- Simple and compound interest rates with equivalency
- Accumulation with simple and compound interest
- Interest and interest rates

### **Unit 8: Coordinate Geometry**

- Parabola
- Circle
- Straight line