

ST. GEORGE'S COLLEGE
FIRST TERM EXAMINATION (2026-27)
SYLLABUS FOR CLASS-XII SCIENCE

ENGLISH LANGUAGE:

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|--------------------------|--------------------------|
| 1. Composition Blog Post | 5. Rewrite the Sentences |
| 2. Article Writing | 6. Phrasal Verbs |
| 3. Book Review | 7. Verbs |
| 4. Proposal Writing | 8. Comprehension |

ENGLISH LITERATURE:
SHORT STORIES (PRISM):

1. Atithi
2. The Medicine Bag

POETRY (RHAPSODY):

1. Telephone Conversation
2. Tithonus

MACBETH:

- Act III & Act IV

HINDI LANGUAGE:

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|------------------|--------------------------|
| 1. निबन्ध | 3. मुहावरे / लोकोक्तियाँ |
| 2. अपठित गद्यांश | 4. वाक्य शुद्धिकरण |

HINDI LITERATURE:

गद्य भाग:

- | | | |
|---------|-----------------------|-----------|
| 1. दासी | 2. क्या निराश हुआ जाए | 3. भक्तिन |
|---------|-----------------------|-----------|

पद्य भाग:

- | | | |
|-------------------|--------------------------|--------------|
| 1. तुलसीदास के पद | 2. जाग तुझको दूर जाना है | 3. उद्यमी नर |
|-------------------|--------------------------|--------------|

उपन्यास (आषाढ़ का एक दिन) :

- दूसरा अंक
- तीसरा अंक

MATHEMATICS:

1. Differentiation
2. Maxima and Minima
3. Indefinite Integrals-I
4. Indefinite Integrals-II
5. Indefinite Integrals-III
6. Definite Integrals
7. Differential Equations
8. Application of Derivatives

PHYSICS:

- | | |
|------------------------|--------|
| 1. Optics (Ray & Wave) | Book 2 |
| 2. Modern Physics | Book 2 |
| 3. Electrostatics | Book 1 |

CHEMISTRY:

- | | | |
|---------------------------|---------------------------|--------------------------|
| 1. Solution | 3. Haloalkanes and Arents | 5. Alcohol Phenol Ethers |
| 2. Coordination Compounds | 4. Electro Chemistry | 6. Chemical Kinetics |

BIOLOGY:

Unit-1:

1. Chapter 1 : Sexual Reproduction in Flowering Plants
2. Chapter 2 : Human Reproduction
3. Chapter 3 : Reproductive Health

Unit-2:

4. Chapter 4 : Principles of Inheritance and Variation
5. Chapter 5 : Molecular Basis of Inheritance
6. Chapter 6 : Origin of Life
7. Chapter 7 : Evidences and Theories of Biological Evolution

Unit-5:

8. Chapter 8 : Organisms and Population
9. Chapter 9 : Eco System
10. Chapter 10 : Biodiversity & Its Conservation

BIOTECHNOLOGY:

Unit-1: Molecular Biology

1. Nucleic Acids & Their Estimation
2. Central Dogma of Life

Unit-2: Genetic Engineering

1. Introduction to Gene Cloning & Genetic Engineering
2. Innovations in Biotechnology

Unit-3: Cell Culture Technology

1. General tools and Techniques used in Cell Culture Technology
2. Microbial Culture and Its Applications
3. Plant Tissue Culture and Its Applications
4. Animal Tissue Culture and Its Applications

COMPUTER SCIENCE:

1. Chapter 1 : Boolean Algebra
2. Chapter 2 : Computer Hardware
3. Chapter 3 : Object & Classes
4. Chapter 4 : Java Revision Tour
5. Chapter 5 : Primitive Values, Type Casting and Expressions
6. Chapter 6 : Statement, Control Structures and Scope
7. Chapter 7 : Functions and Methods
8. Chapter 8 : Arrays and Strings

ARTIFICIAL INTELLIGENCE:

Unit-1: Applications of AI

1. Chapter 1 : Natural Language Processing (NLP)
2. Chapter 2 : Statistics and Probability
3. Chapter 3 : Hypothesis Testing

Unit-2: Different Paradigms of AI: Neural Networks, Machine Learning, Deep Learning

4. Chapter 1: Artificial Neural Networks (ANN)

Unit 5: Introduction to Computer Vision (CV)

5. Chapter 1 : Introduction to CV, Application of Open CV in Real World Scenario
6. Chapter 2 : Image Classifications
7. Chapter 3 : Object Detection
8. Chapter 4 : Facial Recognition
9. Chapter 5 : Colour Detection
10. Chapter 6 : Object Tracking