

ST. JOSEPH'S CONVENT SCHOOL
SYLLABUS -2026-27
CLASS-X

ODIA

First Term Examination - :

1. Jagate Kebala Jane Hasibe (Baladev Rath)
2. Mani Kanchan Joga (Radha Mohan Gadnaik)
3. Nayan Pur Express (Surender Mohanty)

Half Yearly Examination- :

1. Grama Patha (Binod ch Nayak)
2. Bandi ra Biraha Byatha (Gopabandhu Dash)
3. Khadyotika (Bidyut Prava Devi)
4. Dimiri Phula (Akhil Mohan Patnaik)
5. Samantarala Sarala Vekha (Bibhuti Patnaik)

Pre- Mock Examination- :

1. Neela Mastarani
2. Aanguthi
3. All that is done throughout the year.
4. Grammar-
5. All that is done in class 9 & 10.
6. Composition & Letter – All that practiced in the class.

HINDI

First Term Examination - :

1. Sahitya Sagar:- Ch-6 (Bade ghar ki beti)
2. Naya Rasta:- Ch 14, 15,16
3. Grammar:- Essay, Letter, Comprehension, Do as Directed.

Half Yearly Examination- :

1. Sahitya Sagar:- Ch 7 (Sandeh),
2. Ch 8 (Bheed me khoya admi,
3. Ch 9 (bheden aur bhediye)
4. Naya Rasta:- Ch 17, 18, 19, 20, 21
5. Grammar:- Essay, Letter, Comprehension, Do as Directed.

Pre- Mock Examination- :

1. Full Portion

ENGLISH LANGUAGE

First Term Examination - :

1. Composition and grammar

Half Yearly Examination- :

1. Composition
2. Formal and informal letter
3. Notice and Email
4. Comprehension
5. Grammar

Pre- Mock Examination- :

1. Full Portion

ENGLISH LITERATURE

First Term Examination - :

1. Julius Caesar : Act 3 sc i
2. Shot story: With the Photographer

Half Yearly Examination- :

1. Julius Caesar: Act 3 sc ii, iii and Act 4 scene i.

Short Stories:

1. The Elevator
2. The Girl who can.

Poems:

1. Haunted Houses
2. The Glove and the Lions
3. When Great Trees Fall

Pre- Mock Examination- :

1. Julius Caesar: Act 4 sc ii,iii and Act 5

Short Stories:

1. The Pedestrian
2. The Last Lesson.

Poems:

1. A Considerable Speck
2. The Power of Music.
3. Full ICSE Syllabus

PHYSICS

First Term Examination - :

1. Force
2. Work, power, energy

Half Yearly Examination- :

1. Machine
2. Refraction at Plane Surface
3. Refraction Through a Lens
4. Spectrum
5. Electricity & Magnetism

Pre- Mock Examination- :

1. Sound
2. Calorimetry
3. Radioactivity

CHEMISTRY

First Term Examination - :

1. Periodic table and Properties
2. Chemical Bonding
3. Acid, Bases and Salts
4. Analytical Chemistry

Half Yearly Examination- :

1. Unit Test portion
2. Mole concept and stoichiometry
3. Electrolysis
4. Study of Compounds: HCl, HNO₃, H₂SO₄ and NH₃
5. Metallurgy

Pre- Mock Examination- :

1. ICSE Syllabus
2. Metallurgy

BIOLOGY

First Term Examination - :

1. Human Population
2. Pollution
3. Structure of chromosome, Cell Cycle and Cell Division
4. Genetics- Some Basic Fundamentals

Half Yearly Examination- :

1. Absorption by roots- process involved
2. Transpiration
3. Photosynthesis
4. Chemical Coordination in plants
5. The Circulatory system
6. The Excretory system
7. The Endocrine system
8. The Nervous system

Pre- Mock Examination- :

1. Sense Organs
2. Human Reproductive System
3. Human Evolution

MATHEMATICS

First Term Examination - :

1. Banking
2. Linear Inequations
3. GST

Half Yearly Examination- :

1. Similarity
 2. Measures of central tendency
 3. Matrices
 4. Quadratics Equations
 5. Arithmetic Progression
 6. Geometric Progression
 7. Problems on quadratic Equations
 8. Circles
 9. Tangents and intersecting chords
 10. GST
 11. Shares and Dividend
 12. Ratio and Proportion
 13. Remainder and Factor Theorem
 14. Trigonometry
 15. Heights and distances
- (Including the previous chapters taught)

Pre- Mock Examination- :

1. Reflection
 2. Section and Midpoint formula
 3. Equation of line
 4. Locus
 5. Construction
 6. Probability
 7. Cylinder, Cone & Sphere
- (Including the previous chapters taught)

HISTORY

First Term Examination - :

Civics:-

1. The Union Parliament

History:-

2. First War of Independence

Half Yearly Examination- :

Civics:-

1. The President and the Vice President
2. The Prime Minister and the Council of Ministers.

History

1. Factors Promoting the Growth of Nationalism and Foundation of the Indian National Congress.
2. Objectives and Methods of Struggle of Early Nationalists
3. Second Phase of Indian National Movement: Partition of Bengal and other Development.
4. Formation of the Muslim League

Pre- Mock Examination- :

History:-

1. The National Movement (During the First World War)
2. Gandhian Era (Non- Cooperation movement and Civil Disobedience Movement)
3. The Quit India Movement
4. Subhash Chandra Bose
5. Independence and Partition of India
6. First World War.
7. Rise of Dictatorship (Nazism and Fascism)
8. Second World War
9. The United Nations (Organs)
10. The Agencies of UNO.
11. NAM

Civics:-

1. Supreme Court
2. High Court and Subordinate Courts.

GEOGRAPHY

First Term Examination - :

1. Soil resources
2. Natural Vegetation
3. Map of India (Mountains, peaks, and plateaus; Plains, Desert and rivers)

Half Yearly Examination- :

1. Climate
2. Soil resources
3. Natural vegetation
4. Water resources
5. Transport
6. Waste management – I & II

7. Map of India (Mountains, peaks, and plateaus; Plains; Desert; Rivers; Water bodies; Passes; Latitude and Longitude; Direction of winds; soil distribution)
8. Survey Map

Pre- Mock Examination- :

1. Full Syllabus

COMPUTER APPLICATION

First Term Examination - :

1. Elementary concepts of objects and classes
2. Values and Datatypes
3. Operators and Input in Java
4. Mathematical Library methods
5. Conditional constructs in Java
6. Iterative constructs and nested for loops
7. Functions and function overloading

Half Yearly Examination- :

1. Elementary concepts of objects and classes
2. Values and Datatypes
3. Operators and Input in Java
4. Mathematical Library methods
5. Conditional constructs in Java
6. Iterative constructs and nested for loops
7. Functions and function overloading
8. Constructors and Constructor overloading
9. Arrays
10. Library Classes

Pre- Mock Examination- :

1. Elementary concepts of objects and classes
2. Values and Data types
3. Operators and Input in Java
4. Mathematical Library methods
5. Conditional constructs in Java
6. Iterative constructs and nested for loops
7. Functions and function overloading
8. Constructors and Constructor overloading
9. Arrays
10. Strings
11. Encapsulation

ECONOMICS APPLICATION

First Term Examination -:

1. Demand
2. Elasticity of demand and supply
3. Supply

Half Yearly Examination-:

1. Land and labour
2. Capital and entrepreneurs
3. Alternative market structure

4. Money
5. Banking
6. portion of first term

Pre- Mock Examination- :

1. role of state
2. Public sector enterprises
3. Portion of half yearly exam

ROBTIC

First Term Examination -:

1. Introduction To Data And Programming With Python
 - a. Familiarization with Python
 - b. Introduction to data types and variables
 - c. Introduction to Operators
 - d. Conditional Statements
 - e. Control Statements
 - f. Functions
2. New Age Robotic Systems
3. Decision Making In Machines / Computers
 - a. Automated versus Autonomous System
 - b. Decision Making
 - c. Machine Learning (ML)

Half Yearly Examination-:

1. Introduction To Data And Programming With Python
 - a. Class – Ix To Be Revised
 - b. Modules And Packages
 - c. List And Tuples In Python
2. From Robots To Cobots
 - a. Difference Between A Machine And A Robot
 - b. Cobots
3. Components Of Robots As A System
 - a. Introduction To Gears
 - b. Sensors In Robotics
 - c. Actuators
 - d. Controller For A Robotic System
 - e. Integrating Sensors, Actuators And Controller In A Robotic System
4. Machine Intelligence And Cybersecurity In Computing
 - a. Machine Intelligence – Turing Test.
 - b. Cybersecurity
5. Components Of Ai Project Framework
 - a. Problem Scoping
 - b. Data Acquisition
 - c. Data Exploration
 - d. Modelling And Evaluation

6. Robotics Practical
 - a. Assembling A Robot Chassis
 - b. Simple Motion Control – Move Robot
Forward/Backward/Left/Right
 - c. Line Follower Robot

Pre- Mock Examination- :

1. Introduction To Data And Programming With Python
 - a. Class – Ix To Be Revised
 - b. Modules And Packages
 - c. List And Tuples In Python
 - d. Strings
2. New Age Robotic Systems
3. From Robots To Cobots
 - a. Difference Between A Machine And A Robot
 - b. Cobots
4. Components Of Robots As A System
 - a. Introduction To Gears
 - b. Sensors In Robotics
 - c. Actuators
 - d. Controller For A Robotic System
 - e. Integrating Sensors, Actuators And Controller In A Robotic System
5. Visualization, Design And Creation Of Components
 - a. Application Of Mechanical Block Of Robotics.
 - b. Visualization Of Motion
6. Integrating Robots As A System
 - a. Building Simple Robotic Systems, Wheeled Mobile Robot, Single Board Computer Coding
7. Decision Making In Machines / Computers
 - a. Automated Versus Autonomous System
 - b. Decision Making
 - c. Machine Learning (ML)
8. Machine Intelligence And Cybersecurity In Computing
 - a. Machine Intelligence – Turing Test.
 - b. Cybersecurity
9. Components Of Ai Project Framework
 - a. Problem Scoping
 - b. Data Acquisition
 - c. Data Exploration
 - d. Modelling And Evaluation

10. Robotics Practical

- a. Assembling A Robot Chassis
- b. Simple Motion Control – Move Robot Forward/Backward/Left/Right
- c. Line Follower Robot
- d. Obstacle Avoidance Robot
- e. Documentation And Reporting

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