

St. THOMAS SCHOOL KIDWAI NAGAR KANPUR

CLASS - XII

YEARLY SYLLABUS 2023-24

BIOLOGY

UNIT I

Chapter 1 Reproduction in Organism.

Chapter 2 Sexual reproduction in flowering plants.

Chapter 3 Human Reproduction.

Chapter 4 Reproductive health.

HALF YEARLY EXAMINATIONS

Chapter 1 Reproductive in organisms

Chapter 2 Sexual reproduction in flowering plants.

Chapter 3 Human reproduction.

Chapter 4 Reproductive health.

Chapter 5 Principles of inheritance and variations.

Chapter 6 Molecular basis of inheritance.

Chapter 7 Evolution.

Chapter 8 Human health and Diseases.

Chapter 9 Strategies for enhancement in food production.

Chapter 10 Microbes in human welfare.

Chapter 11 Biotechnology : Principles and processes.

Pre-Prelims

Chapter 1 Reproduction in Organisms.

Chapter 2 Sexual Reproduction in flowering plants.

Chapter 3 Human Reproduction.

Chapter 4 Reproductive Health.

Chapter 5 Principles of inheritance and variations.

Chapter 6 Molecular Basis of inheritance.

Chapter 7 Evolution.

Chapter 8 Human health and Diseases.

Chapter 9 Strategies for enhancement in food production chapter.

Chapter 10 microbes in human welfare.

Chapter 11 Biotechnology principles and processes.

Chapter 12 Biotechnology and its application.

Chapter 13 organisms and population.

Chapter 14 ecosystem.

Chapter 15 biodiversity and conservation.

Chapter 16 environmental issues.

Prelims Full syllabus, same as given in Pre board-1

HINDI

UNIT I

काव्य मंजरी -जाग तुझको दूर जाना ,उद्यमी नर

गद्य संकलन - क्या निराश हुआ जाए , आउटसाइडर

आषाढ का एक दिन - अंक एक

व्याकरण -मुहावरे ,लोकोक्तियाँ , शुद्ध वाक्य

HALF YEARLY EXAMINATIONS (Whole Syllabus)

काव्य मंजरी -साखी ,बाल लीला ,एक फूल की चाह ,आ :धरती कितना देती है ,नदी के द्वीप , तुलसी के पद, अंधेरे

का दीपक

जाग तुझको दूर जाना ,उद्यमी नर ,बादल को घिरते देखा है

गद्य संकलन -पुत्र -प्रेम ,गौरी ,शरणागत ,सती ,आउटसाइडर,क्या निराश हुआ जाए ?,भक्तिन

संस्कृति क्या है ?, दासी, मजबूरी

आषाढ़ का एक दिन-पूरा नाटक

व्याकरण - निबंध,अपठित गद्यांश , मुहावरे ,लोकोक्तियाँ , शुद्ध वाक्य

CHEMISTRY

UNIT I

Chapter 6. Haloalkanes and Haloarenes

Chapter 7. Alcohols, Phenols and Ethers

HALF YEARLY EXAMINATIONS

Chapter 1. Solution

Chapter 2. Electrochemistry

Chapter 6. Haloalkanes and Haloarenes

Chapter 7. Alcohols, Phenols and Ethers

Chapter 8. Aldehydes, Ketones and Carboxylic acids

Chapter 9. Nitrogen Containing Compounds

Prelims Full Syllabus

MATHEMATICS

UNIT I

Chapter 2: Inverse trigonometric functions

Chapter 3: Matrices

Chapter 4: Determinants

HALF YEARLY EXAMINATIONS

Chapter 2: Inverse trigonometric functions

Chapter 3: Matrices

Chapter 4: Determinants

Chapter 5: Differentiation

Chapter 6: Indeterminate form

Chapter 7: Application of derivatives

Chapter 8: Integrals

Chapter 9: Differential equations

Pre-Prelims and Prelims: (full course)

Chapter 1: Relations and Functions

Chapter 2: Inverse trigonometric functions

Chapter 3: Matrices

Chapter 4: Determinants

Chapter 5: Differentiation

Chapter 6: Indeterminate form

Chapter 7: Application of derivatives

Chapter 8: Integrals

Chapter 9: Differential equations

Chapter 10: Probability

(Section B)

Chapter 1: Vectors

Chapter 2: Three dimensional geometry

Chapter 3: Application of integrals

(Section C)

Chapter 1: Application of calculus in Commerce and Economics

Chapter 2: Linear regression

Chapter 3: Linear programming

PHYSICS

UNIT I

01. Electric Charges and Electric Field
02. Gauss Theorem
03. Electric Potential

HALF YEARLY EXAMINATIONS

04. Capacitors and Dielectrics
01. Electric Charges and Electric Field
02. Gauss Theorem
03. Electric Potential
04. Capacitors and Dielectrics
05. Electric resistance and ohms law
06. DC circuits and measurement
07. Ray Optics and Optical instruments
08. Dual nature of radiation and Matter
09. Wave optics

UNIT -II

01. Magnetic Effects of Current and Magnetism
02. Electromagnetic Induction and Alternating Currents
03. Electromagnetic Waves

Prelims:

01. Electric Charges and Electric Field
02. Gauss Theorem
03. Electric Potential
04. Capacitors and Dielectrics
05. Electric resistance and ohms law
06. DC circuits and measurement
07. Moving Charges and magnetic field
08. Torque on a current carrying loop
09. Electromagnetic Induction and Alternating Current
10. Electromagnetic Wave
11. Ray Optics and Optical Instruments
12. Dual Nature of Radiation and Matter
13. Atoms and Nuclei
14. Electronic Devices
15. Wave Optics

ENGLISH LANGUAGE

UNIT I

01. Report writing
02. Phrasal Verbs/ prepositions
03. Tenses
04. Transformation of Sentences

HALF YEARLY EXAMINATIONS

01. Report writing
02. Phrasal Verbs/ prepositions
03. Tenses
04. Transformation of Sentences
05. Composition
06. Proposal Writing
07. Comprehension

Pre-Prelims and Prelims:

Complete Course as prescribed by CICSE.

LITERATURE

UNIT I

Short Stories-

01. The Chinese Statue
02. The Sound Machine

Poetry -

01. The Dolphins
 02. John Brown
- The Tempest (drama) – Act 4 Scene 1(till line 125)

HALF YEARLY EXAMINATIONSShort Stories-

01. The Chinese Statue
02. The Sound Machine
03. B. Wordsworth
04. A Gorilla in the Guest room

Poetry -

01. The Dolphins
 02. John Brown
 03. The Darkling Thrush
 04. The Spider and the Fly
- The Tempest (drama) – Act 4 Scene 1.

Pre-Prelims and Prelims:

Complete Course of classes 11 and 12 as prescribed by CICSE.

COMPUTER SCIENCE

UNIT I

Chapter 1: Boolean algebra

Chapter 2: Computer Hardware

HALF YEARLY EXAMINATIONS

Chapter 1: Boolean algebra

Chapter 2: Computer Hardware

Chapter 3: Object and classes

Chapter 4: Primitive values types, casting, variables & expressions

Chapter 5: Statements, controls structures and scope

Chapter 6: Functions/Methods

Chapter 7: Arrays and Strings

Chapter 8: Compile and running Java programs

Chapter 9. Java classes: an OOP Perspective

Chapter 10. Running and Compiling Java Programs

Chapter 11: Recursion

Chapter 12: Concept of Inheritance

Chapter 14: Simple Data Structure

Chapter 15: Recursive Data Structure (Binary Tree)

Chapter 16: Computational Complexity

Pre-Prelims:

Full Syllabus

Prelims:

Full syllabus

VALUE EDUCATION

UNIT 1

Unit 1, 2, 3 AND 4

HALF YEARLY EXAMINATIONS

Chapter 1, 2, 3, 4, 7-12

ACCOUNTS

UNIT I

Fundamental of partnership

Calculation of goodwill

Ratio analysis

HALF YEARLY EXAMINATIONS

Financial statement analysis

Comparative and common size balance sheet

Comparative and common size statement of profit and loss

Ratio analysis

Issue of shares

Issue of debentures

Redemption of debentures

Fundamental of partnership

Calculation of goodwill

Admission of partners

UNIT 2

Retirement of partner

Dissolution of partnership firm

Cash flow statement

Final account of a companies

Pre-Prelims:

All the topics included in first unit, second unit and half yearly (Full Course)

Prelims:

All the topics included in first unit, second unit and half yearly (Full Course)

COMMERCE

UNIT I

Capital fixed and working

Sources of finance for a joint stock company

HALF YEARLY EXAMINATIONS Business environment

Capital fixed and working

Sources of finance for a joint stock company

Banking latest trend

Management meaning nature and importance

Principles of management

Functions of Management and coordination

Planning

Organizing

Staffing

UNIT - II

Directing

Controlling

Marketing concept and functions

Marketing mix

Pre-Prelims:

Entire topic of first term, second term and half yearly

Prelims:

Entire topic of first term, second term and half yearly

ECONOMICS

UNIT I

Chapter 2: Demand and law of Demand

Chapter 3: Theory of Consumer Behaviour -Marginal Utility and Indifference Curve

Analysis

Chapter 4: Elasticity of Demand

HALF YEARLY EXAMINATIONS

Chapter 2: Demand and law of Demand

Chapter 3: Theory of Consumer Behaviour -Marginal Utility and Indifference Curve Analysis
Chapter 4:Elasticity of Demand
Chapter 5: Supply- Law of Supply and Price Elasticity of Supply
Chapter 6: Market Mechanism: Equilibrium Price and quantity in a Competitive Market
Chapter 7:Laws of Returns - Returns to factor and Returns to scale
Chapter 8:Cost and Revenue Analysis
Chapter 9:Forms of Market
Chapter 10:Producer's equilibrium
Chapter 11: Determination of Equilibrium Price and output under Perfect Competition
Chapter 13:Money: meaning and functions
Chapter 14:Banks Commercial Banks and Central Banks
Chapter 15:Balance of Payments and Exchange Rate

Pre-Prelims and Prelims:

Chapter 2: Demand and law of Demand
Chapter 3: Theory of Consumer Behaviour -Marginal Utility and Indifference Curve Analysis
Chapter 4: Elasticity of Demand
Chapter 5: Supply- Law of Supply and Price Elasticity of Supply
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Chapter 7: Laws of Returns - Returns to factor and Returns to scale
Chapter 8: Cost and Revenue Analysis
Chapter 9: Forms of Market
Chapter 10: Producer's equilibrium
Chapter 11: Determination of Equilibrium Price and output under Perfect Competition
Chapter 12: Theory of Income and Employment
Chapter 13: Money: meaning and functions
Chapter 14: Banks Commercial Banks and Central Banks
Chapter 15: Balance of Payments and Exchange Rate
Chapter 16: Fiscal Policy
Chapter 17: Government Budget
Chapter 18: National Income and Circular Flow Of Income
Chapter 19: National Income Aggregates
Chapter 20: Methods of Measuring National Income
