# ST.JOSEPH'S COLLEGE

# CLASS 12

# SYLLABUS FOR 2020-2021

# ENGLISH LANGUAGE

## BOOK: Total English -12 (Morning Star Publication)

**Paper 1 (THEORY) MARKS- 80**

**Paper 2 (PROJECT WORK)- MARKS- 20.**

### FIRST TERM

### QUESTION 1- COMPOSITION-

On **one** out of six topics- **[20 marks]**

a) Descriptive, b) Narrative, c) Argumentative, d) One word, e) Reflective or Discursive and f) Short Story.

### QUESTION 2-

**a)**Directed writing based on suggested points- **[15 marks]**

**-**article writing, report writing, film review, book review and review of cultural programme, statement of purpose and personal profile.

**b)** Proposal Writing based on a given situation. **[10 marks]**

### QUESTION 3-

Short-answer questions to test grammar, structure and usage. **[15 marks]**

### QUESTION4-

Comprehension        **[20 marks]**

### [Syllabus of Class XI to be included ]

### FINAL TERM

**QUESTION 1- COMPOSITION-**

On **one** out of six topics- **[20 marks]**

a) Descriptive, b) Narrative, c) Argumentative, d) One word, e) Reflective or Discursive and f) Short Story.

**QUESTION 2-**

**a)** Directed writing based on suggested points- **[15 marks]**

**-** speech writing and syllabus of Term 1.

**b)** Proposal Writing based on a given situation. **[10 marks]**

**QUESTION 3-**

Short-answer questions to test grammar, structure and usage. **[15 marks]**

**QUESTION4-**

Comprehension          **[20 marks]**

**[ SYLLABUS OF TERM 1 TO BE INCLUDED IN TERM 2]**

# ENGLISH LITERATURE

## FIRST TERM

**DRAMA:** *The Tempest: William Shakespeare-* **ACT 4**

**Echoes: A Collection of ISC Short Stories:**

The Story of an Hour- Kate Chopin
The Singing Lesson- Katherine Mansfield
The Sound Machine- Roald Dahl

**Reverie: A Collection of ISC Poems**

The Darkling Thrush- Thomas Hardy
Crossing the Bar- Alfred, Lord Tennyson
Dover Beach- Matthew Arnold

**FINAL TERM**

**DRAMA:** *The Tempest: William Shakespeare-* **ACT 5**

**Echoes: A Collection of ISC Short Stories:**

B. Wordsworth- V. S. Naipaul

**Reverie: A Collection of ISC Poems**

We are the Music Makers- Arthur William Edgar O'Shaughnessy

Note: For Prelims Exam- Full Syllabus (First term and Final term)

# BENGALI

**TEXT BOOKS  -    KOBITA SANKOLAN**
**-     NOVEL: KONI – MOTI NANDI**
**-     PROBONDHO-O-GODYO SANKALAN**
**(ISC COLLECTION OF SHORT STORIES AND ESSAYS)**

**FIRST TERM**
**Section    :A(Language)              50marks**

- Essay OR Original Short Story         20marks
- Comprehension                  5 x 4 = 20marks
- Grammar.                         10marks
  - Banan Shuddho
  - Bakya Sansodhan
  - Dhannattok Shabdo
  - Idioms

**Section    :B(Literature)              50marks**

- Novel: Koni     – Chapter 8, 9, 10, 11
- Probondho-O-Godyo Sankalan
  - Record
  - Birjo Shulka
  - Aadab
- Kobita Sankolan
  - Salomoner Ma
  - Raasta Karor Ekar Noy

-   Noon

## FINAL TERM

**Section      :A(Language)          50marks**

- Essay OR Original Short Story          20marks
- Comprehension                5 x 4 = 20marks
- Grammar.                      10marks
    - Banan Shuddho
    - Bakya Sansodhan
    - Dhannattok Shabdo
    - Idioms
    -

**Section      :B(Literature)          50marks**

- Novel: Koni    – Chapter 12, 13, 14
- Probondho-O-Godyo Sankalan
    - Lachmaner Ma
- Kobita Sankolan
    - Swadhinata Tumi

**Note: Prelims examinations will include full ISC Syllabus**

# HINDI

**TEXT BOOKS        -    VYAKARAN MANJUSHA**
- **GADYA SANKALAN**
- **KAVYA MANJARI**
- **AASHAD KA EK DIN**

## FIRST TERM

**Section.      :A(Language).          50marks**

Essay. (400words).                20marks

Comprehension.                20marks

Grammar.                      10marks

: **Vyakaran Manjusha.**
   1.Correct sentence

2.Idioms

<div align="center">**Section.     : B(Literature).         50marks**</div>

**Gadya Sankalan**

Ch:7 Kya nirash hua jai?

Ch:8 Bhaktin

Ch:9 Sanskriti kya hai?

(Questions will come  from ch. 1 to ch. 5 and ch.7 to ch.9)

**Kavya Manjari**

Ch:7 Jaag tujhko dur jana hai

Ch:8 Udaymi Nar

Ch:9 Badal ko ghirate dekha hai

(Questions will come  from ch. 1 to ch. 5 and ch.7 to ch.9)

**Aashad ka ek din:**Anka -3(Act-3)

(Questions will come from Act 1 to Act- 3)

<div align="center">**FINAL TERM**</div>

<div align="center">**Section.       :A(Language).          50marks**</div>

Essay. (400words).                20marks

Comprehension.                    20marks

Grammar.                          10marks

: **Vyakaran Manjusha.**
1.Correct sentence
2.Idioms

<div align="center">**Section.     : B(Literature).         50marks**</div>

**Gadya Sankalan** - ((Questions will come  from ch. 1 to ch. 5 and ch.7 to ch.9)

**Kavya Manjari   -** (Questions will come  from ch. 1 to ch. 5 and ch.7 to ch.9)

**Aashad ka ek din -** Full book

<div align="center">**Note: Prelims examinations will include full ISC Syllabus**</div>

# MATHEMATICS

## BOOK: UNDERSTANDING ISC MATHEMATICS CLASS 12[VOL I AND VOL II]

## BY M L AGARWAL

## FIRST TERM

### SEC - A

1. RELATIONS AND FUNCTIONS
2. INVERSE TRIGONOMETRIC FUNCTIONS
3. MATRICES
4. DETERMINANTS
5. DIFFERENTIATION
6. L'HOSPITAL'S THEOREM
7. ROLLE'S MEAN VALUE THEOREM & LAGRANGE'S MEAN VALUE THEOREM
8. APPLICATION OF DERIVATIVES
   - EQUATIONS OF TANGENT AND NORMAL
   - RATE MEASURE
   - INCREASING AND DECREASING FUNCTION
   - MAXIMA & MINIMA
9. INTEGRALS (INDEFINITE INTEGRAL)

### SEC - B

1. VECTORS
2. THREE-DIMENSIONAL GEOMETRY

### SEC - C

1. APPLICATION OF CALCULUS
2. LINEAR REGRESSION
3. LINEAR PROGRAMMING

## FINAL TERM

### SEC- A

1. ALL CHAPTERS FROM FIRST TERM
2. DEFINITE INTEGRAL
3. DIFFERENTIAL EQUATIONS
4. PROBABILITY

### SEC - B

1. ALL CHAPTERS FROM FIRST TERM
2. APPLICATION OF INTEGRALS

### SEC - C

1. SAME AS FIRST TERM

## QUESTION PAPER PATTERN

PAPER 1- THEORY(3HRS)…….……… 80 MARKS

PAPER 2-PROJECT WORK……………. 20 MARKS

BASED STRICTLY ON ISC(2021) REDUCED SYLLABUS AND ITS SCOPE

### PAPER I (THEORY) – 80 Marks

### Section A (65 Marks)

Candidates will be required to **attempt all questions**.

Internal choice will be provided in two questions of two marks, two questions of four marks and two questions of six marks each.

### Section B/ Section C (15 Marks)

Candidates will be required to attempt all questions EITHER from Section B or Section C. Internal choice will be provided in one question of two marks and one question of four mark.

# PHYSICS

### TEXTBOOK – ISC PHYSICS by KN SHARMA and SAMEER KALIA

FIRST TERM

Electrostatics

Current Electricity

Magnetism

Magnetic Effects of Electric Current

Electromagnetic Induction

Alternating Currents

Electromagnetic Waves

Dual Nature of Matter and Radiation

Electronic devices

**FINAL TERM**

Optics

Atoms and Nuclei

<u>Note</u>**: Prelims examinations will include full ISC Syllabus**

# CHEMISTRY

**In accordance to Reduced ISC syllabus 2020-2021 as uploaded in CISCE.org**

**Book : ISC Chemistry for class XII by Dr H.C. Srivastav , Nageen Prakashan Pvt.Ltd**

**First Term**

**Physical chemistry : [25 marks]**

1) Solid States

2) Solutions

3) Surface chemistry

**Inorganic  chemistry : [20 marks]**

1) Coordination Chemistry

2) p-Block elements

**Organic  chemistry : [25 marks]**

1) Haloalkanes and Haloarenes

2)Alcohols , Phenols and Ethers

3) Aldehydes , Ketons and Carboxylic Acids

4) Polymers

5) Chemistry in Everyday Life

**FINAL TERM**

**Physical chemistry : [25 marks]**

1) Electro Chemistry

2) Chemical Kinetics

**Inorganic chemistry : [20 marks]**

1) d and f- Block Elements

2) General Principles and Processes of Isolation of Elements

**Organic chemistry : [25 marks]**

1) Organic compounds containing Nitrogen

2) Biomolecules.

The Mock syllabus must contain the full syllabus of first and second terms in accordance to the ISC Council guidelines The Syllabus is subjected to changes in future as directed by the ISC council.

# BIOLOGY

CLASS – XII

**Based Strictly on ISC (2021) Syllabus and its Scope.**

**Suggested Text book – Balaji ISC BIOLOGY CLASS XII (Dr. S.C.Tripathi)**

FIRST TERM

1. Reproduction
   i.)     Reproduction in organism.
   ii.)    Human Reproduction.
   iii.)   Reproductive Health .
2. Genetics and Evolution
   i.)     Principles of inheritance and variation .
   ii.)    Molecular basis of inheritance .
3. Biology and Human Welfare .
   i.)     Human health and diseases .
   ii.)    Strategies for enhancement in food production.
4. Biotechnology and its applications
   i.)     Biotechnology – principles and processes.
5. Ecology and Environment .
   i)      Organisms and Populations
   ii)     Ecosystem .

**Final Term**

ALL CHAPTERS FROM FIRST TERM   and

1. Reproduction
   ii.) sexual reproduction In flowering plants.
2. Genetics and Evolution
   iii.) Evolution

3. Biology and Human welfare
   ii. Microbes in Human welfare

4. Biotechnology and its Applications
   ii. Biotechnology and its Applications
5. Ecology and Environment
   iii. Bio diversity and its Conservation
   iii. Environmental issue

**QUESTION PAPER PATTERN**

Theory Paper : Full Marks :70  Time 3 hours

There will be no overall choice in the paper.

Candidates will be required to **answer all questions**.

Internal choice will be available in two questions of two marks each, two question of three marks each and all the three questions of five marks each.

Please refer to ISC 2020 biology question paper format. Distribution of marks in question paper will be according to the weightage of the chapters as given in the scope.

Reference Text Book : Nootan biology class 12 (current edition)

ISC Srijan Biology Class 12 , Rastogi Current Edition .

# COMPUTER SCIENCE

**Text Book : Computer Science with JAVA (A Textbook for class XII)**

**By Sumita Arora - Dhanpat Rai & Co.**

**FIRST TERM**

1    Boolean Algebra

2    Computer Hardware

3    Implementation of algorithms to solve problems

4    Programming in Java (Review of Class XI Sections B and C)

5    Objects

6       Primitive values, Wrapper classes, Types and casting

7       Variables and Expressions

8       Statements, Scope

9       Methods

10      Arrays and Strings

11      Recursion

13      Data structures - (a) Basic data structures (stack, queue); implementation directly
        through classes. Conversion of Infix to Prefix and Postfix notations.

**FINAL TERM**

12      Inheritance, Interfaces and Polymorphism

13      Data structures - (b) Binary trees, tree traversals

**Note: Prelims examinations will include full ISC Syllabus**

Question Pattern For **FIRST TERM**

Class XII

**Part – I (20 Marks)**

3 Compulsory Questions of 20 Marks [ 5 + 10 + 5 ]

From First Term Full Syllabus of Class XII

**Part – II (50 Marks)**

**Section A (20 Marks)**

Questions from Chapter 1 & 2

2 out of 3 Questions of 10 marks each

**Section B (20 Marks)**

2 out of 3 Questions of 10 marks each

(Only Java Programs)

**Section C (10 Marks)**

2 out of 3 Questions of 5 marks each

Questions from Simple Data Structures, Methods -The this Operator

Question Pattern for **Final Term** Class XII as per ISC Pattern

## ECONOMICS

AS PER SCOPE OF ISC SYLLABUS 2021

## BOOK:  FRANK ISC ECONOMICS FOR CLASS XII

## D.K. SETHI, U.ANDREWS

(Revised edition)

## *SCOPE OF SYLLABUS TO BE STRICTLY FOLLOWED*

### FIRST TERM

**Chapter 2:** Demand and Law of Demand

(i) Demand: meaning, factors affecting demand; Demand function; Law of Demand; derivation of demand curve; movement and shift of the demand curve; exceptions to the Law of Demand.

*The concept of demand: meaning; A demand function to be specified incorporating the determinants of demand. Diagrams should be used in explaining the Law of Demand, reasons for downward slope of demand curve, its derivation using demand schedule. Derivation of market demand curve from individual demand curve*

**Chapter 4:** Elasticity of Demand
(ii) Elasticity of demand: meaning, types of elasticity of demand, measurement of elasticity of demand; factors affecting elasticity of demand.

*Various methods of measurement of the elasticity of demand: point method - percentage method, expenditure method and geometric method. (Numericals required on percentage method only). The cross and income elasticity of demand must be explained. Degrees of elasticity of demand to be explained. Use diagrams wherever necessary.*

**Chapter 5:** Supply – Law of Supply and elasticity of supply

(iii) Supply: meaning; difference between stock and supply; determinants of supply; Law of Supply; movement and shift of the supply curve; elasticity of supply
*Difference between stock (intended supply) and supply (actual supply) with the help of relevant examples. A supply function should be specified and explained. Law of Supply, supply schedule and supply curve. Derivation of market supply curve from individual supply curve. Movement and shift of the supply curve, exceptions to the Law of Supply. Elasticity of Supply: Meaning and measurement of elasticity of supply by percentage method and geometric method.*

**Chapter 6:** Market Mechanism – Equilibrium price and quantity in a competitive market

(iv) Market Mechanism: Equilibrium and disequilibrium; Equilibrium price and effect of changes in demand and supply on the equilibrium price. Simple applications of tools of demand and supply.

*A basic understanding of the concept of equilibrium. The effects of changes in demand and supply - both along the curves and shift of the curves to be explained. Basic understanding of Price control, rationing, Price ceiling and Floor price with the help of demand and supply curves.*

**Chapter 9:** Forms of Market

(vii) Main market forms: perfect competition, monopolistic competition, oligopoly, monopoly, monopsony; characteristics of the various market forms.

*Features of perfect competition, monopolistic competition, oligopoly, monopoly and monopsony (meaning only).*

**Chapter 13:** Money: Meaning and Functions

(i) Money: meaning, functions of money, supply of money.

*Meaning, kinds of money, functions of money (primary, secondary and contingent) to be explained; supply of money (only meaning of $M_1$, $M_2$, $M_3$ & $M_4$).*

**Chapter 14:** Banks: Commercial Banks and Central Bank

(ii) Banks: functions of commercial bank; high powered money, credit creation by commercial banks; Central Bank: functions.

*Basic understanding of the functions of commercial banks, credit creation process with limitation. The regulatory role of the Central Bank, its functions and the way it controls the flow of credit needs to be explained. A brief mention may be made of quantitative CRR, SLR, Bank Rate policy (repo rate and reverse repo rate) and Open Market Operations) and qualitative methods.*

**Chapter 15:** Balance of Payments and Exchange Rates

Balance of Payment – meaning, components; foreign exchange – meaning, determination of exchange rate (Flexible).

*Balance of Payment - Meaning and components; Causes of disequilibrium and how the disequilibrium can be corrected; Foreign Exchange Rate – meaning, meaning of fixed and flexible exchange rate, determination of exchange rate in a free market. Concepts of depreciation, appreciation, devaluation and revaluation (meaning only).*

**Chapter 16:** Fiscal Policy

(i) Fiscal Policy: meaning and instruments of fiscal policy.

*Meaning and instruments of fiscal policy – Public Revenue: Meaning, taxes (Meaning and types), difference between direct and indirect taxes; Public Expenditure: Meaning and importance; Public Debt: Meaning and redemption; Deficit Financing: meaning.*

**Chapter 17:** Government Budget

(ii) Government Budget: meaning, types and components.

*Meaning and types of Government budget – union, state; components – revenue and capital. Concept of deficit budget: revenue deficit, fiscal deficit, primary deficit – their meaning and implications.*

**Final Term**

**Chapter 3:** Theory of Consumer Behaviour – Marginal utility and Indifference curve analysis

Law of Diminishing Marginal Utility, Law of Equimarginal Utility, consumer's equilibrium through utility approach (Cardinal) and indifference curve analysis (Ordinal).

*(a) Cardinal Utility Analysis: meaning of utility, total utility, marginal utility, relationship of TU and MU, Law of Diminishing Marginal Utility (schedule and diagram, Only assumptions to be taught, criticisms not required), Consumer's equilibrium – one commodity (schedule and diagram), Law of Equimarginal Utility (statement, schedule) and conditions of consumer's equilibrium using marginal utility;*
*(b) Ordinal Utility Analysis: Indifference Curve – its meaning and properties (including MRS and DMRS), indifference map, consumer's budget line, Consumer's equilibrium – condition (to be explained with the help of a diagram).*

**Chapter 7:** Laws of Returns – returns to a factor and returns to a scale

(v) Concept of production and production function (short run and long run production function), returns to a factor, total, average and marginal physical products; Law of Variable Proportions and its three stages.

*A production function (concept only). Law of Variable Proportions: statement, assumptions, schedule (for the purpose of understanding and not for testing), diagram and explanation to the three stages.*

**Chapter 8:** Cost and Revenue analysis

(vi) Cost and revenue: Basic concepts of cost; fixed cost, variable cost, total cost, marginal cost and average cost – their relationships; opportunity cost; short run and long run cost curves. Revenue: meaning; average revenue, marginal revenue and total revenue and their relationships under perfect competition and imperfect competition.

*Basic concepts – private cost, economic cost, social cost, money cost, real cost, explicit cost, implicit cost.*

*Cost concepts – Fixed cost, variable cost, total cost, marginal cost, average cost with schedule and diagram; relationship between average cost, marginal cost, total cost (only concepts of long run and short run cost curves, derivations not required). Opportunity cost – meaning only. Difference between accounting cost and opportunity cost.*

*Revenue – Average revenue, marginal revenue, total revenue – concepts and relationships under perfect competition and imperfect competition.*

**Chapter 12:** Theory of Income and Employment

Basic concepts and determination of Income and Employment

*The concept of demand (ex-ante) and effective (ex-post) demand. Aggregate demand and its components, propensity to consume and propensity to save (average and marginal), equilibrium output (Both AD-AS & S-I Approach).*

**Chapter 18:** National Income and Circular Flow of Income

(i) Circular flow of Income.

*A simple model explaining the circular flow of income with two, three and four sector models with leakages and injections.*


**Chapter 19:** National Income Aggregates

(ii) Concepts and definition of NY, GNP, GDP, NNP.

*A brief understanding of the mentioned national income aggregates is needed. The concepts of GNP and NNP should be explained both at factor cost and market prices, real GDP and nominal GDP.*

**Note: Prelims examinations will include all chapters from FIRST TERM**


## ACCOUNTS

## BOOK : DOUBLE ENTRY BOOK KEEPING for CLASS 12  BY TS GREWAL,

## S.CHAND PUBLICATION

**FIRST TERM**

## Section A

Chap 2. – Goodwill: Concept and Mode of Valuation

Chap 6- Joint Stock Company- Issue of Shares

Chap 7-  Joint Stock Company- Issue of Debentures

Chap 8- Joint Stock Company- Redemption of Debentures

Chap 9- Joint Stock Company –Final accounts

## Section B

Chap 1- Financial Statement Analysis

Chap 2- Ratio Analysis

### Final Term

*Full Syllabus as per scope of Syllabus of ISC 2021*

***Note:- The scope of syllabus for ISC Examination 2021 will be strictly followed.***

## COMMERCE

## Book- ISC Commerce Vol II- Dr C.B.Gupta

### FIRST TERM

<u>Unit 1</u>

Chap 1- Business Environment

<u>Unit  2</u>

Chap 2- Capital- fixed and working

Chap 3 – Sources of Finance of a Joint Stock Company

Chap 4- Banking – Latest Trends

<u>Unit 3</u>

Chap 5- Management – Meaning, Nature and Importance

Chap 6- Principles of Management

Chap 7- Functions of Management and Coordination

Chap 8- Planning

Chap 9- Organising

<u>Unit 4</u>

Chap 13. – Marketing- Concept and Functions

Chap 14- Marketing Mix

Chap 15- Consumer Protection

# Final Term

## *Full Syllabus as per the scope of syllabus for ISC Examination 2021*

## BUSINESS STUDIES

### BOOK : ISC BUSINESS STUDIES - PART 2 FOR CLASS XII – C.B. GUPTA

### FIRST TERM

CHAPTERS

1.  Introduction to Human Resource Management
2.  Job and Manpower Planning
3.  Staff Recruitment
4.  Staff Selection
5.  Staff Training
6.  Staff Morale
7.  Staff Motivation
8.  Staff Remuneration
9.  Staff Leadership
10. Staff Appraisal
11. Staff Promotion and Transfer
12. Staff Separation
13. Emerging Trends in Human Resources
14. Business Communication
15. Business Correspondence
16. Reports and Report Writing

### FINAL TERM

( Chapters 1 to 16) and  (19 T0 21)

19    Globalisation
20    E- Business
21    Outsourcing

**Note: Prelims examinations will include full ISC Syllabus**