

City Montessori School, Lucknow

Syllabus 2021 – 2022

Class XI

S.No.	Subject	Page Number
1.	Moral Education	6
2.	English Language	7
3.	English (Prescribed Texts)	11
4.	Hindi	13
5.	Mathematics	15
6.	Physics	17
7.	Chemistry	21
8.	Biology	23
9.	Economics	26
10.	Commerce	28
11.	Accounts	29
12.	Computer Science	31
13.	History	33
14.	Psychology	34
15.	Biotechnology	36
16.	Geography	38
17.	Physical Education	40
18.	Art	42
19.	Sociology	45
20.	Fashion Design	46
21.	Political Science	48
22.	Legal Studies	49

NOTE: Please refer to ISC Council Syllabus and Scope of Syllabus 2023 for further reference.

AIMS AND OBJECTIVES

MORAL EDUCATION:

1. To develop in every student the essential elements of morality.
2. To develop the values and capabilities necessary for making right decisions and upright conduct.
3. To develop in them the attitude of open mindedness, to appreciate and be ready to accept others and to act constructively not defensively.
4. To develop the skill of striving not only for good but to handle the conflicting situations without demeaning self and others.
5. To develop the ability to monitor themselves and find out constructive ways of conflict resolutions.
6. To promote the development of good character for the purpose of lessening crime and raising the standard of good citizenship.

ENGLISH LANGUAGE:

1. To develop habits of:
 - a. clear articulate expression, using accepted syntactical forms and structures with a firm grasp of idioms;
 - b. critical thinking, involving assessment and analysis of the written material provided.
2. To develop the capacity to critically and innovatively examine and to assess the value of passages of argumentative writing, to consider the assumptions upon which the arguments rest and to trace the implications that follow.
3. To develop adequate and appropriate vocabulary.
4. To develop the ability to comprehend and appreciate good prose.

ENGLISH (Prescribed Texts):

1. To develop an appreciation of literature through a critical study of selected literary works.
2. To help students achieve through the study of literature, an understanding of the study of man.
3. To create an interest in the warp of thought, which differs from that of the group to which, the student belongs.
4. To develop the power of expression.

HINDI:

1. To develop habits of clear articulate expression using accepted syntactical forms and structures, with a firm grasp of idiom and to comprehend and appreciate good prose.
2. To expose candidates to a deeper knowledge and appreciation of literary works in the language.

HISTORY:

1. To provide accurate knowledge of the most significant events and personalities of the period under study in sequence and in context.

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2. To familiarise candidates with factual evidence.
3. To develop an understanding of the existence of problems and relevance of evidence of explanations.
4. To develop the capacity to marshal facts and evaluate evidence and to discuss issues from a historical point of view.
5. To develop the capacity to read historical views in the light of new evidence or new interpretation of evidence.
6. To foster a sense of historical continuity.
7. To familiarise candidates with various types of historical evidence and to provide some awareness of the problems involved in evaluating different kind of source materials.

PSYCHOLOGY:

1. To develop an understanding of human behaviour: the nature of individuals and of members of social groups.
2. To develop an understanding of the methods of research and study employed in psychology.
3. To develop an appreciation of the practical value of psychology and its applications in daily life.

ECONOMICS:

1. To enable candidates to acquire knowledge, information and develop an understanding of facts, terms, concepts, conventions, trends, principles, generalisations, assumptions, hypothesis, problems, processes etc. in economics.
2. To acquaint candidates with tools of economic analysis.
3. To develop an understanding of important economic problems.
4. To acquaint candidates with the main institutions through which the productive process is carried out.
5. To develop an understanding of the role of institutions in the functioning of an economy.
6. To enable candidates to compare their own economic structure with that of the other areas of the world.

COMMERCE:

1. To develop an interest in the theory and practice of business, trade and industry.
2. To familiarise candidates with theoretical foundations, organising, managing and handling operations of a business firm.
3. To provide a study of the more important aspects of the commercial world.
4. To provide knowledge of the activities of commerce in the marketing of goods and services.

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ACCOUNTS:

1. To provide an understanding of the principles of accounts and practice in recording transactions and interpreting individual as well as company accounts.
2. To develop an understanding of the form and classification of financial statements as a means of communicating financial information.

MATHEMATICS:

1. To enable candidates to acquire knowledge and to develop an understanding of the terms, concepts, symbols, definitions, principles, processes and formulae of mathematics.
2. To develop the ability to apply the knowledge and understanding of mathematics to unfamiliar situations or to new problems.
3. To develop skills of –
 - computation
 - drawing geometrical figures and graphs
 - reading tables, charts, graphs, etc.
4. To develop an appreciation of the role of mathematics in day-to-day life.
5. To develop an interest in mathematics.
6. To develop a scientific attitude through the study of mathematics.

PHYSICS:

1. To enable candidates to acquire knowledge and to develop an understanding of the terms, facts, concepts, definitions, fundamental laws, principles and processes in the field of physics.
2. To develop the ability to apply the knowledge and understanding of physics to unfamiliar situations.
3. To develop a scientific attitude.
4. To develop skills in –
 - a. the practical aspects of handling apparatus, recording observations and
 - b. drawing diagrams, graphs etc.
5. To develop an appreciation of the contribution of physics towards scientific and technological developments and towards human happiness.

CHEMISTRY:

1. To foster acquisition of knowledge and understanding of terms, concepts, facts, processes and principles.
2. To develop the ability to apply the knowledge of contents and principles in new and unfamiliar situations.
3. To develop skills in proper handling of chemicals and apparatus.
4. To develop an ability to appreciate achievements and its role in nature and society.
5. To develop an interest in activities involving the usage of the knowledge of chemistry.

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BIOLOGY:

1. To enable candidates to acquire the knowledge and to develop an understanding of biological terms, concepts, facts, principles, formulae, etc.
2. To create awareness about the problems of the environment and the manner in which these problems can be overcome.
3. To develop the ability to appreciate biological phenomena in nature and the contribution of biology to human welfare.
4. To develop interest in plants and animals and in their respective environments.
5. To develop scientific attitude towards biological phenomena.
6. To create awareness of the fundamentals of human biology, food, health, nutrition and population control.

COMPUTER SCIENCE:

1. To enable students to comprehend basic concepts and practices for problem solving.
2. To develop an understanding of how a computer stores and processes data.
3. To develop the ability to describe the major components of computer hardware and their functions and interactions.
4. To develop the ability to analyse applications and systems of interacting objects.
5. To develop the ability to code, test, debug, document and validate programs to implement various algorithms.
6. To develop an appreciation of the implications of computer use in everyday life in contemporary society.

BIOTECHNOLOGY:

1. To enable candidates to acquire the knowledge and develop an understanding of how materials are provided by biological agents to provide goods and services.
2. To appreciate the role played by biotechnology in improving health care of human beings.
3. To understand the interdisciplinary nature of this subject.
4. To create awareness about the appreciation of biological processes to industries.
5. To develop the ability to appreciate biological phenomenon in nature and the contribution of biotechnology to human welfare.
6. To develop scientific attitude towards biological phenomenon.

ENVIRONMENTAL EDUCATION:

1. To develop an in-depth understanding of various environmental issues and concerns of national and global importance.
2. To develop a balanced view of the relationship between environment and development.

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3. To understand basic concepts related to sustainable development vis-a-vis improvement of quality of life.
4. To develop a deeper concern for the environment and the sense of commitment and responsibility to take proactive action.
5. To appreciate the variety in living organisms and recognise India as a mega-diversity nation.
6. To appreciate the role of the individual, community, national and international agencies in resolving the environmental problems.

MORAL EDUCATION

Name of the Textbook: The Pathfinders Book - 2
Publisher: Foundation for Advancement of Science

May – January			
Suggested Month	Chapter Number	Name of the Chapter	
May – July	1	Motivation for Service	1-6
August	2	Life in Limbo	7-12
October	3	Love is the answer	13-18
November	4	The Source of Unfailing Guidance	19-24
December	5	Created to Love	25-30
January	6	The Missing Link	31-38

Note: Written work for every chapter mentioned above:

1. Competence Building
2. Group discussion.

ENGLISH LANGUAGE

* English Language test papers to be prescribed by the subject teacher at the branch level.

MAY – MARCH	
Question No.	Topics
1.	Composition:
a	narrative
b	descriptive
c	reflective
d	discursive
e	argumentative
f	story writing
2(a)	Directed Writing:
	Report Writing
	(i) an accident
	(ii) a natural calamity
	(iii) coverage of an official function
	(iv) visit of a dignitary
	(v) an incident
	– Article Writing
	– Speech Writing
	– Film Review
	– Book review
	– Review of cultural programme
	– Statement of purpose
	– Personal profile
2(b)	Proposal Writing
3.	Functional Grammar:
a.	transformation of sentences
b.	prepositions
c.	tenses
4.	Comprehension:
a (i)	synonymous words
(ii)	different meaning sentences
b.	comprehension questions
c.	summary writing
* }	
REVISION / HALF-YEARLY EXAMINATION (November)	
REVISION / ANNUAL EXAMINATION (March)	

* Questions are subject to change as per the latest Council Sample Paper, 2023.

* One Test Paper to be done every month.

Paper 1: English Language (3 hours, 80 marks)

Question 1 – A composition on one of a number of subjects.

(400-450 words)

... **20 marks**

Question 2 – (a) A short composition based on the information and ideas provided.

(300 words)

... **15 marks**

(b) Proposal Writing

... **10 marks**

Question 3 – Short-answer questions to test grammar, structure and usage. ... **15 marks**

Question 4 – Comprehension (about 500 words will be provided) ... **20 marks.**

Internal Assessment –

... **20 Marks**

Language Project:

Project work in class XI consists of assessment of candidates in listening and speaking skills which will be assessed in the following way:

1. **Listening Skills:**

A passage of about 500 words is read aloud, twice, the first time at normal reading speed (about 110 words a minute) and the next time at a slower speed. Students may make brief notes during the readings. They then answer objective type questions based on the passage on the paper provided.

2. **Speaking Skills:**

Students are to be assessed through an individual presentation of about three minutes followed by a discussion with the subject teacher, for another two or three minutes.

Some of the themes to be addressed in the assessment are - narrating an experience, giving directions or instructions on how to make or operate something, providing a description, giving a report, expressing an opinion or a theme based conversation.

Note: Please refer to the Council Syllabus and Scope of syllabus 2023 for details.

PROPOSAL WRITING

Guidelines and marks distribution for Proposal Writing, question 2(b)

General Instructions:

- Only student centric topics should be given for writing a proposal.
- Word limit is approximately 150 words. However, it should not exceed 160 words.
- It should be divided into three distinct parts i.e., the Heading, Objective and Measures.
- Heading and Objective must be written in a **paragraph** form and Measures in numbers and points / bullets.
- After each heading, using a colon sign (:) is a must.
- All paragraphs must be aligned towards the left.

- 1. Heading:** The candidates will be required to convey the specific task that the project is supposed to achieve. It should be creative, clear and concise and have at least two points to define the purpose.
- 2. Objective:** The candidates will be required to explain the goals and objectives of the proposed project. At least **two objectives in a paragraph** should be stated clearly.
- 3. Measures:** The candidates will be required to explain the specific steps and method of what is to be done as:
1. What do they plan to do?
 2. Total number of members involved in the project
 3. Proposed activities
 4. Time that will be taken to complete the project
 5. Budgetary and non-financial needs, i.e. How much money will be spent on the project and what non-financial resources are required? (human capital, infrastructure, other resources required, etc.)

Concluding sentence . The proposal should be concluded with a sentence stating that you are hopeful that your proposal will be accepted.
 Based on the above mentioned points, the mark distribution for different heads under proposal writing is as follows:

Maximum Marks: 10

Heading:	2
Objectives:	2 (Objectives + Expression)
Measures:	4
Linguistic ability	2

SPECIMEN FOR PROPOSAL WRITING

PROPOSAL FOR SETTING UP A SCIENCE CLUB

Heading/Introduction: To foster an interest in Science outside the classroom and introduce students to the wonders and relevance of Science in our lives, we propose to set up a Science Club in school.
<i>(maximum 2 sentences – 2 marks)</i>
Objectives: A Science Club will help students overcome their phobias regarding Science. It will be instrumental in developing the scientific curiosity of students through its activities and programmes.
<i>(minimum 2 points – 2 marks)</i>
List of Measures:
<ul style="list-style-type: none"> • The middle-school activity room will be used as the room for all Science Club meetings and activities. • The meetings will take place once a week after school from 2.00 pm till 3.30 pm. Any activities such as talks by scientists or competitions will take place on Saturdays. • Membership of the Science Club will be open to all students from Classes VI to XII. The Club President will be Mr. Sinha, our Senior Physics Teacher. Eight other office bearers will be elected from the members of the Club. • Club membership has been fixed at Rs. 250/- per member per year. • The Club will have a range of activities ranging from Science Fairs, Robot making, creating slogans and posters, documentaries and so on.
<i>(minimum 4 points – 4 marks)</i>
We hope that the proposal will be accepted so that the Science Club becomes a reality in the life of the school.
<i>(linguistic ability – 2 marks)</i>
[Total – 10 marks]
IMPORTANT NOTICE: It is suggested that while writing a proposal, the students provide an apt title, a Heading i.e. an introduction of about 2 sentences, a minimum of 2 objectives and a list of measures of a minimum of 4 points. The proposal should be concluded with an appropriate sentence, 2 marks will be awarded for linguistic ability.

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LITERATURE IN ENGLISH (Prescribed Texts)

- Name of the Textbook:**
1. The Tempest (Turner Edition)
 2. Echoes: A Collection of ISC Short Stories
 3. Reverie: A Collection of ISC Poems
- Author:** 1. William Shakespeare
- Publisher:**
1. S. Chand
 2. Evergreen Publications (India) Ltd., New Delhi
 3. Evergreen Publications (India) Ltd., New Delhi

MAY – NOVEMBER (FIRST TERM)		
Suggested Month	Name of the Chapter	Page
May – August	The Tempest	
	Act I Scene I, II	2-38
	Echoes: A Collection of ISC Short Stories	
	Salvatore	5
	Fritz	11
	Reverie: A Collection of ISC Poems	
	The Dolphins	11
	The Gift of India	13
September – October	The Tempest	
	Act II	40-70
	Echoes: A Collection of ISC Short Stories	
	Quality	24
	Reverie: A Collection of ISC Poems	
	John Brown	17
November	REVISION / HALF-YEARLY EXAMINATION	

DECEMBER – MARCH (SECOND TERM)		
Suggested Month	Name of the Chapter	Page
December	Echoes: A Collection of ISC Short Stories	
	The Chinese Statue	58
	Reverie: A Collection of ISC Poems	
	Desiderata	22

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January	The Tempest	
	Act III	70-92
	Echoes: A Collection of ISC Short Stories	
	A Gorilla in the Guest Room	72
	Reverie: A Collection of ISC Poems	
	The Spider and the Fly	28
February –	REVISION	
March	ANNUAL EXAMINATION	

Paper 2:

Theory: Prescribed Texts (3 hours) 80 Marks

Internal Assessment: 20 Marks

THEORY

Candidates will be required to answer **five** questions as follows:

One textual question (compulsory) on the Shakespeare play together with **four** other questions on at least **three** texts, which may include the Shakespeare play.

Question 1 compulsory ... 20 marks, **four** other questions, each carrying 15 marks.

The textual questions, which will be set on the Shakespeare play will contain **three** short passages and candidates will be required to answer questions set on **two** of the passages. These questions may require candidates to explain words and phrases, to rewrite passages in modern English, or to relate an extract to the work as a whole.

The rest of the questions on the Shakespeare play and on the other prescribed texts will be set on the episodes, the plot or plots, themes or ideas, characters, relationships and other prominent literary qualities of the texts prescribed.

LITERATURE PROJECT:

The candidates will be required to undertake one written assignment of 1000-1500 words, which is to be assessed internally by the teacher.

Note: Please refer to the Council Syllabus and Scope of the syllabus 2023 for the project topics and details.

हिंदी

Name of Textbook	Author	Publication
1. सारा आकाश	: राजेन्द्र यादव	इंटर यूनिवर्सिटी प्रेस
2. गद्य संकलन	: ISC Collection of Short Stories & Essays	ऐवरग्रीन पब्लिकेशन्स
3. काव्य मंजरी	: ISC Collection of Poems	ऐवरग्रीन पब्लिकेशन्स
4. व्याकरण मंजूषा	: विनोदिनी शर्मा	इंटर यूनिवर्सिटी प्रेस

MAY – NOVEMBER			
Suggested Month	Chapter Number	Name of the Chapter	Page
May - July		काव्य मंजरी	
	1	साखी – (कबीरदास)	6
		गद्य संकलन	
	1	पुत्र प्रेम – (प्रेमचन्द)	6
	2	गौरी – (सुभद्रा कुमारी चौहान)	14
		सारा आकाश (अंक 1, 2)	
		व्याकरण – वाक्य संशोधन	
		निबंध – वर्णनात्मक	
August-September		काव्य मंजरी	
	2	बाल लीला – (सूरदास)	8
	3	एक फूल की चाह – (सियारामशरण गुप्त)	10
		गद्य संकलन	
	3	शरणागत – (वृन्दावन लाल वर्मा)	25
		सारा आकाश (अंक 3, 4, 5)	
		व्याकरण – मुहावरे, अपठित गद्यांश	
		निबन्ध – कल्पनात्मक	

Suggested Month	Chapter Number	Name of the Chapter	Page
October – November		परियोजना कार्य	
		काव्य मंजरी	
	4	आ: धरती कितना देती है – (सुमित्रानन्दन पन्त) (for Annual Examination)	15
		गद्य संकलन	
	4	सती – शिवानी (for Annual Examination)	34
		सारा आकाश (अंक 6, 7, 8) (for Annual Examination)	
		काव्य मंजरी	
	5	नदी के द्वीप – (अज्ञेय) (for Annual Examination)	19
November		HALF-YEARLY EXAMINATION	

DECEMBER - MARCH			
Suggested Month	Chapter Number	Name of the Chapter	Page
December		काव्य मंजरी	
	6	तुलसी के पद (तुलसीदास)	21
		सारा आकाश (अंक 9, 10)	
		निबंध – विचारात्मक	
		गद्य संकलन	
	5	आउट साइडर – (मालती जोशी)	44
January		निबन्ध – सूक्तिपरक (मौखिक)	
		गद्य संकलन	
	6	दासी – (जयशंकर प्रसाद)	54
February		व्याकरण – वाक्य संशोधन, मुहावरे	
		पुनरावृत्ति	
March		ANNUAL EXAMINATION	

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Internal Assessment (20 marks)

Assessment Criteria	Description
Listening Skills (Aural)	Response to questions based on listening comprehension
Speaking Skills (Oral)	Content, Fluency, Vocabulary, Sentence structure, Confidence level
Writing Skills	Process, Content, Presentation, Originality

There will be **one** paper of **3** hours duration, which will consist of two sections:

- Section A:** Language (40 marks)
- Section B:** Prescribed Textbooks (40 marks) **Total**
- Internal Assessment:** (20 marks) **40+40+20=100**

Candidates will be required to answer **four** questions on **at least three** of the prescribed textbooks.

Note: Please refer to the Council Syllabus and Scope of the syllabus 2023 for details.

MATHEMATICS

Name of the Textbook: Understanding ISC Mathematics Volumes I and II for Class XI (Reprint: 2021)
Author: M L Aggarwal
Publisher: Arya Publications

MAY – NOVEMBER

Suggested Month	Chapter Number	Name of the Chapter	Page
May – November		Section A	
	1	Sets	A-1
	2	Relations and Functions	A-56
	3	Trigonometry	A-112
	4	Principle of Mathematical Induction	A-256
	5	Complex Numbers	A-285

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	6	Quadratic Equations	A-354
	7	Linear Inequalities	A-397
	8	Permutations and Combinations	A-433
	9	Binomial Theorem	A-511
	14	Statistics	A-914
		Section B	
	2	Introduction to Three-Dimensional Geometry	B-1121
	3	Mathematical Reasoning	B-1145
		Section C	
	1	Statistics	C-1188
	2	Correlation Analysis	C-1227
		REVISION	
November		HALF-YEARLY EXAMINATION	

DECEMBER – MARCH

Suggested Month	Chapter Number	Name of the Chapter	Page
		Section A	
December – February	11	Straight Lines	A-671
	12	Circles	A-787
	13	Limits and Derivatives	A-836
	10	Sequences and Series	A-548
	15	Probability	A-974
		Section B	
	1	Conic Sections	B-1041
		Section C	
	3	Index Numbers and Moving Averages	C-1253
		REVISION	
March		ANNUAL EXAMINATION	

There will be **two** papers in the subject:

Paper I: Theory (3 hours) – 80 marks

Paper II: Project Work – 20 marks

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Paper I (THEORY) – 80 Marks:

The syllabus is divided into **three** sections A, B and C.

Section A is compulsory for all candidates. Candidates will have a choice of attempting questions from **EITHER** Section B **OR** Section C.

There will be one paper of **three** hours duration of 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 marks.

Note: Please refer to the Council Syllabus 2023 for details.

PHYSICS

Name of the textbook: श्री Balaji ISC Physics for Class XI
(Part-1 and Part-2)

Authors: D.K. Tyagi

Publisher: Shri Balaji Publications

MAY – NOVEMBER

Suggested Month	Chapter No.	Name of the Chapter
May - July	0	Mathematical Tools
		UNIT 1: PHYSICAL WORLD AND MEASUREMENT
	1	Physical World
	2	Units
	3	Error Analysis and Significant Figures
	4	Dimensional Analysis
		UNIT 2: KINEMATICS
	5	Motion in a Straight Line
	6 A	Motion in a Plane
	6 B	Projectile Motion
		UNIT 3: LAWS OF MOTION
August	7	Newton's Laws of Motion
	8	Friction
	9	Uniform Circular Motion

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		UNIT 4: WORK, ENERGY AND POWER
September	10	Work, Energy and Power
		UNIT 5: MOTION OF SYSTEM OF PARTICLES AND RIGID BODY
October- November	11	Centre of Mass
	12	Rotational Motion of a rigid body: moment of Inertia
		UNIT 6: GRAVITATION
	13	Gravitation (I) and Gravitation (II)
		REVISION
November		HALF-YEARLY EXAMINATION

DECEMBER – MARCH

		UNIT 7: PROPERTIES OF MATTER
December	15	Elasticity
	16	Fluid Pressure
	17	Flow of Liquids – Viscosity
	18	Surface Tension
		UNIT 9: BEHAVIOUR OF PERFECT GAS AND KINETIC THEORY OF GASES
	24	Behaviour of Perfect Gas and Kinetic Theory of Gases
		UNIT 8: HEAT AND THERMODYNAMICS
	19	Thermal Expansion: Calorimetry
	20	Heat Transfer
	21	Thermodynamics
	22	Isothermal and Adiabatic Processes
	23	Second Law of Thermodynamics: Heat Engine
		UNIT 10: OSCILLATIONS AND WAVES
January- February	25	Simple Harmonic Motion
	26	Free, Damped and Forced Oscillations
	27	Mechanical Waves
	28	Progressive Waves
	29	Superposition of Waves – 1: Interference and Beats
	30	Superposition of Waves – 2: Stationary Waves and Vibrations of Air Column
	31	Vibrations of Stretched strings
	32	Doppler Effect

		REVISION
March		ANNUAL EXAMINATION

PRACTICAL WORK
 (According to ISC 2023 Syllabus)

The following experiments are recommended for practical work.

Suggested Month	Exp. No	Experiments
May - July	1	Measurement by Vernier Callipers. Measure the diameter of a spherical body. Calculate the volume with appropriate number of significant figures. Measure the volume using a graduated cylinder and compare it with calculated value.
	2	Find the diameter of a wire using a micrometer screw gauge and determine percentage error in cross sectional area.
	3	Determine the radius of curvature of a spherical surface like watch glass by a spherometer.
August	4	Equilibrium of three concurrent coplanar forces. To verify the law of parallelogram of forces and to determine the weight of a body.
	5	Inclined Plane: To find the downward force acting along the inclined plane on a roller due to gravitational pull of earth and to study its relationship with angle of inclination by plotting graph between force and $\sin\theta$.
September	6	Friction: To find the force of limiting friction for a wooden block placed on horizontal surface and to study its relationship with normal reaction. To determine the coefficient of friction.
October – November		Determination of the coefficient of viscosity of a given viscous liquid by terminal velocity method. (Demonstration)
		Capillary rise method to determine the surface tension of water. (Demonstration)
	7	To determine specific heat capacity of a solid using a calorimeter.
HALF-YEARLY PRACTICAL EXAMINATION		

December	8	Cooling curve: To study the relationship between falling temperature of a hot body (like hot water or any other liquid in a calorimeter) with time. Find the slope of curve at four different temperatures of hot body and hence deduce Newton's law of cooling.
	9	To find the acceleration due to gravity by measuring the variation in time period(T) with effective length(L) of simple pendulum, plot graph of T vs \sqrt{L} and T^2 vs L
January-February	10	To find the force constant of a spring and to study variation in time period of oscillation of a body suspended by the spring. To find acceleration due to gravity by plotting graph of T against \sqrt{m}
	11	To study the variation in frequency of air column with length using resonance column apparatus or a long cylinder and a set of tuning forks. Hence determine the velocity of sound in air at room temperature.
	12	To determine frequency of a tuning fork using a sonometer.
ANNUAL PRACTICAL EXAMINATION		

There will be two papers in the subject.

Paper I: Theory 3 hours (70 marks)

Paper II: Practical 3 hours (10 marks)

+
Project Work }
 +
Practical File } (5 marks)
 Test } (15 marks)

Paper 1 (Theory): There will be no overall choice in the paper. Candidates will be required to answer all questions. Question wise distribution of marks in the theory paper will be as follows:

			Total
Q1 (A)	...	1 mark each	5 marks
Q1 (B)	...	1 marks each	7 marks
Q2 to 12	...	2 marks each	22 marks
Q13 to 19	...	3 marks each	21 marks
Q20 to 22	...	5 marks each	15 marks

Internal choices will be available in two questions of 2 marks each, two questions of 3 marks each and all the three questions of 5 marks each.

PROJECT WORK + PRACTICAL FILE [5 marks]

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- All candidates will do project work involving some Physics related topics, under the guidance and regular supervision of the Physics teacher. Candidates are to prepare a technical report, formally written, including an abstract, some theoretical discussion, experimental setup, observations with table of data collected, analysis and discussion of results, deductions, conclusion, etc. (after the draft has been approved by the teacher). The report should be kept simple, but neat and elegant. No extra credit shall be given for type-written material/decorative cover, etc. Teachers may assign or students may choose any one project of their choice.
- Teachers are required to assess students on the basis of the physics practical file maintained by them during the academic year.

Note: You are advised to refer to the Council's syllabus 2023 for further details.

CHEMISTRY

Name of the textbook: श्री Balaji ISC Chemistry
A Textbook of Class XI Part I, II
Author: M P Sawhney
Publisher: Shri Balaji Publications

MAY – NOVEMBER		
Suggested Month	Topic Number	Name of the Chapter
May - July	1	Some basic concepts of Chemistry
	2	Structure of Atom
August	3	Classification of Elements and Periodicity in Properties
	4	Chemical Bonding and Molecular Structure
September	9	Hydrogen
	10	s-Block Elements (Alkali and Alkaline Earth Metals)
	12	Organic Chemistry: Some basic principles and techniques (excluding Mechanism)
October	5	States of Matter: Gases and Liquids
	8	Redox Reactions
November	14	Environmental Chemistry (Project Work)
		REVISION
November		HALF-YEARLY EXAMINATION

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DECEMBER – MARCH		
December	6	Chemical Thermodynamics
	11	The p-Block Elements
January – February	7	Equilibrium
	12	Organic Chemistry: Some basic principles and techniques (Mechanism)
	13	Hydrocarbons
February		REVISION
March		ANNUAL EXAMINATION

List of Practicals		
May – November	1.	Titration
	2.	Preparation of Inorganic compounds
December – February	3	Qualitative Analysis: Identification of single salt containing one anion and one cation.
	4	Paper chromatography

Note:

There will be **two** papers in the subject.

Paper I (Theory): Three hours (70 marks)

Paper II (Practical): Three hours (15 marks), project work (10 marks) and practical file (5 marks)

Paper I (Theory) 70 marks

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 2 marks each, two questions of 3 marks each and all the three questions of 5 marks each.

Total unit wise weightage will be as follows:

Physical Chemistry	:	32 Marks
Inorganic Chemistry	:	15 Marks
Organic Chemistry	:	<u>23 Marks</u>
Total	:	<u>70 Marks</u>

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Paper II (Practical):

- **Practical (15 marks)**
- **Project Work (10 marks):** The candidate is to creatively execute one project / assignment on a **selected topic of Chemistry**. Teachers may assign or students may choose any one project of their choice.
- **Practical File (5 marks):** Teachers are required to assess students on the basis of the **Chemistry Practical file** maintained by them during the academic year.

Refer to the Council Syllabus 2023 for details.

* NCERT textbooks volume I, II will be used as reference books.

BIOLOGY

Name of the textbook: Nootan ISC Biology Class XI
Author: Prof V Singh and Dr D K Jain
Publisher: Nageen Prakashan (Pvt) Ltd

MAY – NOVEMBER		
Suggested Month	Topic Number	Name of the Chapter
May - July	8	Cell – The Unit of Life
	10	Cell Cycle and Cell Division
	18	Body Fluids and Circulation
	19	Excretory Products and Their Elimination
August - September	1	The Living World
	2	Biological Classification
	3	Plant Kingdom
	4	Animal Kingdom
	5	Morphology of Flowering Plants
October - November	6	Anatomy of Flowering Plants
	14	Respiration in Plants
	9	Biomolecules
REVISION		
HALF-YEARLY EXAMINATION		

DECEMBER - MARCH		
December	11	Transport In Plants
	12	Mineral Nutrition

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	13	Photosynthesis in Higher Plants
	7	Structural Organisation in Animals
January	15	Plant Growth and Development
	16	Digestion and Absorption
	17	Breathing and Exchange of Gases
	20	Locomotion and Movement
February	21	Neural Control and Co-ordination
	22	Chemical Co-ordination and Integration
		REVISION
March		ANNUAL EXAMINATION

List of Practicals

1. Scientific Techniques

Study parts of a dissecting microscope and compound microscope.

2. Physiology

- (i) Food tests: test for starch, glucose, sucrose, proteins and fats.
- (ii) To study the effect of thawing, heat and alcohol on permeability of beet root cells.
- (iii) Separation of plant pigments from leaves by chromatography.
- (iv) Effect of different carbon dioxide concentrations on the rate of photosynthesis.
- (v) Demonstration of plasmolysis (using *Rhoeo* leaf / onion bulb).
- (vi) Demonstration of osmosis in living plant cells (potato osmoscope)

3. Morphology

- (i) Study of morphology and modification of roots, stems and leaves.
- (ii) Preparation of temporary slides of *Mucor* / *Rhizopus*.

4. Cytology

Preparation of temporary slides of:

- (i) Onion peel (to study the plant cell)
- (ii) Stages of Mitosis in onion root tips
- (iii) T.S. of monocot and dicot stem
- (iv) T.S. of monocot and dicot root.

5. Spotting:

- (a) Identification of stained preparations of the following:
 - (i) Stages of meiosis
 - (ii) Mammalian blood cells
 - (iii) Bacteria
 - (iv) *Spirogyra*
 - (v) *Amoeba*
 - (vi) Yeast.

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(b) Identification of the following specimens:

- (i) Liverworts
- (ii) Moss
- (iii) Fern
- (iv) *Pinus*
- (v) Mushroom
- (vi) One monocot plant – bamboo
- (vii) One dicot plant - *Petunia*
- (viii) Sponge
- (ix) *Hydra*
- (x) Tape worm
- (xi) Leech
- (xii) Silk worm
- (xiii) Rohu fish.

(c) Comment on experimental set up studied in physiology – Osmosis, Transpiration, Photosynthesis and Transpiration pull.

There will be **two** papers in the subject:

Paper I (Theory): Three hours (70 marks)

Paper II (Practical): Three hours (15 marks), project work (10 marks) and practical file (5 marks).

Paper I – Theory: 70 Marks

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 2 marks each, two questions of 3 marks each and all the three questions of 5 marks each.

S. No.	Unit	Total Weightage (Marks)
1.	Diversity of Living Organisms	9
2.	Structural Organisation in Animals and Plants	11
3.	Cell: Structure and Function	15
4.	Plant Physiology	17
5.	Human Physiology	18
Total		70 Marks

Please refer to the Council Syllabus 2023 for details.

ECONOMICS

Name of the textbook: Frank ISC Economics Class XI

Author: D K Sethi & U Andrews

Publisher: Frank Bros. & Co.

MAY – NOVEMBER		
Suggested Month	Chapter Number	Name of the Chapter
May - July	17	Definition, Scope, Importance and Limitations of Statistics
	18	Collection, Organisation and Presentation of Data
	19	Measures of Central Value
August	23	Some Mathematical Tools Used in Economics
	1	Definition of Economics
	2	Basic Concepts of Economics
September	3	Basic Problems of an Economy
	4	Types of Economies
	5	Solutions to the Basic Economic Problems Under Different Economic Systems
October	6	The State of the Indian Economy on the Eve of Independence
	16	Comparative Study of Indian and Chinese Economies
	10	Planning and Economic Development in India
Submission of Project work – 1		
November	20	Measures of Dispersion
REVISION		
HALF-YEARLY EXAMINATION		

DECEMBER – MARCH		
December	7	Economic Growth and Development
	8	Parameters of Development
	9	Sustainable Development
January	12	The Problem of Poverty in India
	21	Correlation
	15	Employment and Unemployment in India: Unemployment– types of unemployment, causes for unemployment, Policy measures
	14	Human Capital Formation in India

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February	13	Profile of Indian Agriculture/Rural Development: Agricultural Marketing, Cooperative Marketing, Rural Credit (1) Productive / unproductive (2) Institutional / Non institutional, Agricultural diversification, Effects of green revolution, Organic farming – benefits and needs.
	11	Structural Changes in the Indian Economy after Liberalisation
	22	Index Number
		Submission of Project work – 2
		REVISION
March		ANNUAL EXAMINATION

There will be **two** papers in the subject.

Paper I – Theory of three hours duration of 80 marks divided into two parts.

Part I (20 marks) will consist of compulsory short answer questions, testing knowledge, application and skills relating to elementary / fundamental aspects of the entire syllabus.

Part II (60 marks) will consist of eight questions out of which candidate will be required to answer **five** questions. Each question in this part shall carry 12 marks comprising three sub-parts with the following division of marks:

- (a) Three marks
- (b) Three marks
- (c) Six marks.

Paper II – Project work ... 20 marks

Candidates are required to complete two projects (1 before Half-Yearly Exams and 1 before Annual Exams) from any topic covered in theory.

Test: **10 marks**

Project: **10 marks**

The project is to be internally assessed at class level only.

Refer Council Syllabus and Scope of the Syllabus 2023 for details.

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COMMERCE

Name of the textbook: ISC Commerce, Vol.I (for class XI)

Author: Dr C. B. Gupta

Publisher: S. Chand & Company Pvt. Ltd.

MAY – NOVEMBER		
Suggested Month	Chapter Number	Name of the Chapter
May - July	1	Classification of Human Activities – Economic and Non-Economic
	2	Nature and Objectives of Business
	3	Classification of Business Activities
	4	Introduction to Business Organisations
	5	Sole Trader
August	6	Partnership
	7	Joint Stock Company
	8	Types of Companies
September	9	Formation of A Company
	10	Public Enterprises, Public Utilities and Public Private Partnerships
September	11	Cooperative Organisation
October	12	Social Responsibility of Business and Business Ethics
	13	E-Business and Outsourcing
		Submission of Project 1
November		REVISION
		HALF-YEARLY EXAMINATION

DECEMBER – MARCH		
December	18	Chambers of Commerce
	22	World Trade Organisation (WTO)
	14	Stock Exchange
	15	Wholesale Trade (Wholesalers)
January	16	Retail Trade (Retailers)

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	17	Procedure and Documents used in Home Trade
	19	Nature and Scope of Foreign Trade
	20	Export Trade
	21	Import Trade
February	23	Business Risks and Insurance
	24	Types of Insurance
February		REVISION
		Submission of Project 2
March		ANNUAL EXAMINATION

There will be two papers in the subject.

Paper I (Theory) – 80 marks for 3 hrs.

Part I – (20 marks) will consist of compulsory short answer questions. (10x2=20)

Part II – (60 marks) will consist of eight questions out of which candidates will be required to answer **five** questions, each carrying 12 marks.

Paper II (Project work)

Students will be expected to have completed two projects from any topic covered in Theory.

In each term: One Project (10 marks) + Test (10 marks)

Please refer to the Council Syllabus 2023 for details.

Note: Topics to be covered as per scope of syllabus.

ACCOUNTS

Name of the textbook: New ISC Accountancy (Class XI)

Author: D K Goel, Rajesh Goel and Shelly Goel

Publisher: Arya Publications (Avichal Publishing Company)

MAY - NOVEMBER		
Suggested Month	Chapter Number	Name of the Chapter
May - July	1	Evolution of Accounting & Basic Accounting Terms
	2	Accounting Equations (excluding numericals)

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	3	Meaning and Objectives of Accounting
	4	Double Entry System
	14	Generally Accepted Accounting Principles (GAAP)
	5	Books of Original Entry - Journal
August	6	Accounting for Goods & Service Tax (GST)
	15	Bases of Accounting
	9	Ledger
	7	Books of Original Entry - Cash Book
September	8	Books of Original Entry - Special Purpose Subsidiary Books
	10	Trial Balance
	11	Bank Reconciliation Statement
	16	Accounting Standards and International Financial Reporting Standards (IFRS)
October	12	Depreciation
	17	Capital and Revenue
	18	Provisions and Reserves
	19	Final Accounts (Without Adjustments)
	20	Final Accounts (With Adjustments)
November	20	Final Accounts (With Adjustments) (continued)
		REVISION
November		HALF-YEARLY EXAMINATION

DECEMBER - MARCH		
December	13	Bills of Exchange
	21	Errors and their Rectification
	22	Accounts from Incomplete Records: Single Entry System
January	22	Accounts from Incomplete Records: Single Entry System (Continued)
	23	Accounts of Not-for-Profit Organisations
	24	Computerised Accounting System
	25	Accounting Information System
February		REVISION
March		ANNUAL EXAMINATION

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There will be **two** papers in the subject.

Paper I – Theory – 3 hours 80 marks.

Paper II – Project Work 20 marks.

PAPER I (Theory) – 80 marks.

There will be one paper of three hours duration of 80 marks divided into **two** parts.

Part I (20 marks) will be compulsory and will consist of short answer questions, testing knowledge, application and skills relating to elementary / fundamental aspects of the entire syllabus.

Part II (60 marks): Candidates will be required to answer **five** questions out of **eight** from this section. Each question shall carry 12 marks.

Candidates will be expected to have completed two projects from any topic covered in theory but the topic should be from the scope of syllabus 2023.

Refer Council Syllabus 2023 for further details.

COMPUTER SCIENCE

Name of the textbook: Computer Science With Java
A Textbook for Class XI

Author: Sumita Arora

Publisher: Dhanpat Rai & Co.

MAY – NOVEMBER			
Suggested Month	Chapter Number	Name of the Chapter	Page
May - July	1	Data Representation	1
	3	General OOP Concepts	97
	4	Introducing Java	109
	5	Java Fundamentals	123
	6	Flow of Control	185
	7	Classes in Java (excluding object passing)	243
August	10	Using Library Classes and Packages (Topic 10.6 'Packages in Java' only)	363-369
	8	Functions (Methods) (Excluding Recursion)	265-297
	11	Arrays (excluding strings)	375
September	9	Program Error Types and BASIC Exceptions Handling	313

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	12	Operations on Files (Text and Binary both)	417
October	7	Classes in Java (only passing and returning objects as arguments)	243
November		REVISION	
HALF-YEARLY EXAMINATION			

DECEMBER - MARCH			
December	10	Using Library Classes and Packages (including array of strings) (excluding topic 10.6 'Packages in Java')	339-363
	8	Functions (Methods) – Recursion	298-302
January	8	Functions (Methods) – Recursion (continued)	-
	2	Propositional Logic & Hardware (Situation based questions on propositional logic)	63
February	13	Trends in Computing and Ethical Issues	453
		REVISION	
March	ANNUAL EXAMINATION		

Please refer to the Council Syllabus 2023.

There will be two papers in the subject:

Paper I: Theory 3 hours ... 70 marks

Paper II: Practical 3 hours ... 30 marks (Practical Exam: 10 marks
Project File: 5 marks
Internal Assessment: 15 marks)

PAPER I – THEORY

Paper I shall be of **3 hours** duration and be divided into two parts.

Part I (20 marks): This part will consist of compulsory short answer questions, testing knowledge, application and skills relating to the entire syllabus.

Part II (50 marks): This part will be divided into three Sections A, B and C. Candidates are required to answer **two** questions out of **three** from Section A (each carrying **10 marks**) and **two** questions out of **three** from **Section B** (each carrying **10 marks**) and **two** questions out of **three** from **Section C** (each carrying **5 marks**). Therefore, a total of **six** questions are to be answered in Part II.

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Note:

1. Algorithms may be done along with the programs.
2. Programs in the Half-yearly and Annual Examination to be based on classes and objects including main.
3. Programs on file handling and recursion will be asked in Section C in the examinations.
4. Refer to the Council Specimen paper 2019 for knowing the pattern of questions.

HISTORY

- Name of the textbook:**
1. **Mastering World History**
 2. **ISC History for Class XI**
 3. **Modern Indian History – 1**
- Author:**
1. **Lowe**
 2. **S N Banerjee**
 3. **D N Kundra**
- Publisher:**
1. **Macmillan**
 2. **Kalyani Publishers**
 3. **Navdeep Publisher**

MAY – NOVEMBER		
Suggested Month	Topic Number	Name of the Topic
May - July	1	Growth of Nationalism
	2	Emergence of the Colonial Economy
August	3	Economic, Social and Cultural Impact of British Rule
	6	Urbanisation, Growth of Working Class and Worker's Movement
	7	The First World War 1914-1918
	8	Peace settlements after the World War – I, Establishment of the League of Nations
September	4	Protest Movement against Colonial Rule
	9	The Great Depression: USA, Germany, Britain, France, Japan
October		REVISION
November		HALF-YEARLY EXAMINATION

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DECEMBER – MARCH		
December	5	Gandhian Nationalism (1916 – 1934)
	13	Rise of Militarism in Japan (1919-1941)
January	10	Rise of Communism in Russia
	11	Rise of Fascism in Italy (1922-39)
February	12	Rise of Nazism in Germany (1933-39)
		REVISION
March		ANNUAL EXAMINATION

There will be one paper of three hours duration of 80 marks divided into two parts.

Part I (20 marks) will consist of compulsory short answer questions testing fundamental factual knowledge and understanding of the entire syllabus.

Part II (60 marks) will be divided into **two** sections, Section **A** and Section **B**, each consisting of **five** questions. Each question shall carry 12 marks. Candidates will be required to attempt **two** questions from each Section and **one** question from either Section A or Section B. A total of **five** questions will be attempted from part II.

Please refer to the Council Syllabus 2023 for details.

PSYCHOLOGY

- Name of the Textbook:**
1. **Psychology**
 2. **Introduction to Psychology**
 3. **General Psychology**
- Author:**
1. **Robert Baron**
 2. **Morgan & King**
 3. **S K Mangal**
- Publisher:**
1. **Pearson**
 2. **Tata McGraw Hill**
 3. **Sturling**

MAY – NOVEMBER	
Suggested Month	Name of the Chapter / Topic
May - July	Defining Psychology; Schools – Structuralism, Functionalism, Behaviourism, Psychoanalysis, Gestalt; Fields – Clinical, Counselling, Developmental, Educational, Organizational, Social; Methods – Observation, Case Study, Surveys, Experimental, Self Report, Field Study
August	Attention; Heredity and Environment, Frustration and Conflict

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September	Learning
October	Instincts and Emotions, Motivation and its theories
	Thinking, Reasoning and Problem Solving; Creative Thinking
November	REVISION
	HALF-YEARLY EXAMINATION

DECEMBER - MARCH	
December	Perception, ESP, Colour Perception, Remembering and Forgetting (Amnesia, Alzheimer's disease).
January	Remembering and Forgetting (continued)
	Statistics, Samples, Psychological Tests
February	REVISION
March	ANNUAL EXAMINATION

Internal Assessment: Two studies to be undertaken on topics given in the Council Syllabus.

There will be **two** papers in the subject.

Paper I – Theory: 3 hours – **70 marks**

Paper II – Practical Work – **30 marks**

Paper I (Theory) – 70 marks

Part I (20 marks) will consist of **compulsory** short answer questions relating to the fundamental aspects of the entire syllabus.

Part II (50 marks) will consist of **two** sections, A and B.

Candidates will be required to answer **two** out of **three** questions from Section A and **three** out of **five** questions from Section B. Each question in this part shall carry **10 marks**.

Please refer to the Council syllabus 2023 for details.

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BIOTECHNOLOGY

Name of the textbook: A Textbook of Biotechnology

Author: Dr R C Dubey

Publisher: S Chand and Company Pvt Ltd

MAY - NOVEMBER		
Suggested Month	Topic Number	Name of the Topic
May - July	1	Introduction to Biotechnology
	(i)	Historical Background
	(ii)	Scope and Importance of Biotechnology
	(iii)	Basic concepts of Biochemical Technology and Biostatistics
August	2	Cell Biology
	(i)	Cell – justification of cell as a basic unit of life
	(ii)	Cell Division and Cell Cycle
September	(iii)	Errors in Cell Division
October	3	Biomolecules and Related Techniques
	(i)	Introduction to Biomolecules
	(ii)	Techniques Used for Separation of Biomolecules
November	4	Developmental Biology and Immunology
	(i)	Animal and Plant Development
	(ii)	An understanding of defence strategies in living organisms
		REVISION
November		HALF-YEARLY EXAMINATION

DECEMBER – MARCH		
December	5	Genetics
	(i)	Laws of Inheritance
January	(ii)	Gene Mapping
	(iii)	Genes in Populations
February	(iii)	Genes in Populations (Contd.)
		REVISION
March		ANNUAL EXAMINATION

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LIST OF PRACTICALS

1.	Determination of blood group by using anti sera
2.	Identification of different types of blood cells by preparing blood smear using Leishmann's stain
3.	Instruments – their names, use and principles.
4.	Finding out the pH of water by using pH meter or pH paper on tap water and water containing acid, base.
5.	Observation of steps of mitosis by using root tip of onion
6.	Measurement of mitotic index.
7.	Observation of various stages of meiosis under microscope
8.	Effect of temperature on curdling of milk using <i>Lactobacillus</i> bacteria at 37°C, 60°C and 10°C
9.	Food tests – Carbohydrates, proteins and lipid.
10.	Finding out the purity of milk by using Lactometer.
11.	Construction of pedigree showing different types of Inheritance.
12.	Preparation of Karyotypes
13.	Sampling methods – quadrat and transect by using different techniques.
14.	Data Collection – Primary and Secondary.

There will be **two** papers in the subject:

Paper I (Theory): Three hours (70 marks)

There will be **one** paper of **three** hours duration divided into **two** parts.

Part I (20 marks) will consist of compulsory short answer questions, testing knowledge, application and skills relating to elementary / fundamental aspects of the entire syllabus.

Part II (50 marks) will consist of **eight** questions out of which the candidates will be required to answer **five** questions. Each question in this part shall carry 10 marks.

Paper II (Practical): Three hours (15 marks), project work (10 marks) and practical file (5 marks)

Please refer to the Council Syllabus 2023 for details.

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GEOGRAPHY

Name of the textbook: ISC Geography Part I (Class 11)

Author: D.R. Khullar

Publisher: Kalyani Publishers

MAY – NOVEMBER		
Suggested Month	Chapter / Unit Number	Name of the topic
May - July		Geography as a Discipline
	1	Geography – Its Interdisciplinary approach and future prospects
		Principles of Physical Geography
	2	Formation of the Earth (i) Theories of formation of the earth (ii) Methods of measuring age of the earth (iii) Structure and composition of the earth's interior (iv) Rocks
	3	Changing face of the Earth
		Landforms and Processes of Gradation (i) Endogenous processes (ii) Landforms – mountains, plateaus, plains and their types (iii) Vulcanicity (iv) Earthquakes
August / September / October		(v) Exogenetic processes and associated landforms (vi) Soil (vii) Fluvial processes and associated landforms (viii) Aeolian processes and associated landforms (ix) Glacial processes and associated landforms (x) Work of ground water and associated landforms. Water conservation (xi) Marine processes and associated landforms
	4	Atmosphere (i) Composition and structure of Atmosphere (ii) Atmospheric temperature (iii) Atmospheric Pressure (iv) Atmospheric Moisture
		Practical Work (to be done as per the Council syllabus)

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November	5	The Realms of Water (i) Submarine relief and deposits of the Atlantic, Pacific and Indian Ocean (ii) Ocean water – Salinity, temperature and density (iii) Ocean water movements
		REVISION
November		HALF-YEARLY EXAMINATION

DECEMBER – MARCH		
December	6	Biosphere – Life on the Earth (i) Nature of Biosphere, concept of ecosystems, components of ecosystem (ii) Biodiversity for Sustenance of mankind (iii) India as a mega-diversity nation (iv) Loss of Biodiversity – threatened, endangered and extinct species (v) Strategies for conservation of biodiversity – in-situ and ex-situ
		Practical Work (to be done as per the Council syllabus)
January / February	7	A. World Climatic Types (i) Low-Latitude / tropical climates (ii) Mid-Latitude / temperate climates (iii) High Latitude / polar climates (iv) Highland climates B. Climate Change
	8	Natural Hazards, their causes and management (i) Hazards of Volcanic eruptions and earthquakes (ii) Identification of major drought prone areas (iii) Areas prone to floods / landslides – India
		Map Work (as per the Council syllabus) (Ocean Currents + Natural Regions)
		Practical Work (to be done as per the Council syllabus)
February		REVISION
March		ANNUAL EXAMINATION

There will be **two** papers in the subject.

Paper I – Theory (3 hours) ... 70 marks

Paper II – Practical and project Work ... 30 marks

PAPER I – THEORY (70 Marks)

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There will be one Theory paper of **three** hours duration divided into **two** parts.

Part I (30 marks) will be compulsory and will consist of Section A and Section B.

Section A will include compulsory short answer questions testing knowledge, application and skills related to elementary fundamental aspects of the entire syllabus.

Section B will consist of one question on **map work**.

Part II (40 marks) will consist of **seven** questions. Candidates will be required to answer **four** out of seven questions. Each question in this part shall carry **10 marks**.

Note: Please refer to the Council Syllabus 2023 for details.

PHYSICAL EDUCATION

Name of the textbook: Saraswati Physical Education for Class XI (ISC)
Author: Dr V K Sharma
Publisher: New Saraswati House (India) Pvt. Ltd.

MAY – NOVEMBER			
Suggested Month	Chapter Number	Name of the Chapter	Page
May – November	1	Concept of Physical Education	17
	6	Games and Sports – A Global Perspective	114
	2	Individual Aspects and Group Dynamics	34
		Any two games of your choice: Cricket, Football, Hockey, Basketball, Volleyball, Badminton, Tennis, Swimming, Athletics	
		* Physical Efficiency Tests	
		**Practical Assessment	
		REVISION	
November - December		HALF-YEARLY EXAMINATION	

DECEMBER – MARCH			
December	3	Effects of Physical Exercise on Human Body Systems	44
January	4	Nutrition, Weight Control and Exercise	69

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February	5	Physical Fitness and Wellness	95
December – February		Any two games of your choice: Cricket, Football, Hockey, Basketball, Volleyball, Badminton, Tennis, Swimming, Athletics	
		* Physical Efficiency Tests	
		**Practical Assessment	
February		REVISION	
March		ANNUAL EXAMINATION	

There will be **two** papers in the subject.

Paper I: Theory: 3 hours ... 70 marks;

Paper II: Internal Assessment ... 30 marks

Paper I (Theory) ... 70 marks

The theory paper will be divided into **two** Sections A and B. Candidates will be required to answer **five** questions out of **seven** from **Section A**, each carrying **8 marks**. **Section B** will be based on questions on major games in the syllabus. Candidates will be required to select **two games** from this section and answer any **three** of the **five** subparts (a), (b), (c), (d) and (e) from **each** of the **two** selected games of their choice. Each subpart shall carry 5 marks.

Paper II (Internal Assessment) ... 30 marks

Internal Assessment work will be assessed in two parts as follows:

- (i) Continuous Assessment (*Monthly tests by the teacher*) – **15 marks**
- (ii) Practical Assessment (*by the Internal Examiner*) – **15 marks**.

The Practical Assessment will consist of the following:

- A. Physical Efficiency Tests
- B. Specialisation Test
- C. Viva (on the two games / activities chosen by the candidate)

* **Please refer to the Council Syllabus 2023 for details.**

** **Practical Assessment is to be done by the Internal Examiner for both the terms.**

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ART (871)

Name of the Drawing book: The Fundamentals of Drawing Still Life by Barrington Barber
Still Life

Author: Sanjay Shelar

Publisher: Jyotsana Prakashan

MAY – NOVEMBER		
Suggested Month	Chapter Number	Name of the Chapter
		Still Life Paper I
May - July	1	A plastic jar, 1 basket, shovel, spade, trowel, water showering can (5 ltrs)
		Original Imagination
	2	Market scene showing local shops with minimum 5 human figure.
	3	Any class room scene – Children sitting in a class and teacher is teaching the students
		Craft 'A'
	4	Birthday card – Design a birthday card for your mother for her birthday
	5	Pattern design
August - September	6	A basket full of vegetables (7 at least)
		Still Life Paper I
	7	A container of juice, a packet of chips with a plate full of chips, two bananas and one apple.
	8	A statue (a small bust), a packet of agarbati with its stand, Honey bottle, two fresh flowers and a bell.
		Original Imagination
	9	Children playing cricket on street
	10	Park schene – collage friends standing in a group and talking to each other

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– Joseph Joubert

		Craft 'A'
	11	Book cover – design a rhyme book for toddlers
	12	Poster design – Women empowerment
October		Still Life Paper I
	13	A pressure cooker, uncooked rajma in a bowl, a full plate of tomato, onions and chillies
		Original Imagination
	14	Traffic scene
	15	Restaureant scene
		Craft 'A'
	16	Invitation Card for 25 th wedding anniversary of your parents
November		REVISION
HALF-YEARLY EXAMINATION		

DECEMBER – MARCH		
December		Still Life I
	17	9 Cosmetic set, lipstick, Ponds cream Lotion, Moisturising cream, cleansing milk, etc.
	18	Stationary items – books, pencil/pen, sharpener, etc.
	19	Bucket, tub, towel, soap case, tooth paste, brush and one mug
		Original Imagination
	20	Movie ticket counter scene

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	21	School canteen scene
		Craft 'A'
	22	Book cover of science book of class 6 th
	23	Festival card
January – February		Still Life I
	24	A loaf of bread, a tin of powder milk, a coffee mug, oranges, few pieces of cakes
	25	A washing tub, Harpic, glass cleanser, a safe wash and a hand wash.
		Original Imagination
	26	Construction site- labors working on construction site
		Craft 'A'
	27	Story book cover and inside pages
	28	Poster design-Say no to plastic
		REVISION
March	ANNUAL EXAMINATION	

There will be **three** papers in the subject.
Paper I, II and III **70 marks**
Internal assessment **30 marks**
Please refer to the Council Syllabus 2023 for details.

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SOCIOLOGY

Name of the textbook: **ISC Sociology For Class XI**

Author: **Manjir Ghosh**

Publisher: **Kalyani Publishers**

MAY – NOVEMBER			
Suggested Month	Chapter Number	Name of the Chapter	Page
May – August	1	Origin and Development of Sociology and Anthropology	1.1-1.22
	2	Research Methodology	2.1-2.6
	3	Basic Concepts	3.1-3.9
September – October	3	Basic Concepts (Continued)	
	3	Basic Concepts (Continued)	
		Submission of First Project	
November		REVISION	
		HALF-YEARLY EXAMINATION	

DECEMBER – MARCH			
December	4	Social Structure	4.1-4.17
	5	Social Problems	5.1-5.22
January	6	Indial Sociologists	6.1-6.10
		Submission of Second Project	
February		REVISION	
March		ANNUAL EXAMINATION	

There will be **two** papers in the subject:

Paper I – Theory: 3 hours ... 70 marks

Paper II – Practical Work ... 30 marks

PAPER – I (THEORY) ... 70 marks

Part I (20 marks) will consist of **compulsory** short answer questions testing knowledge, application and skills relating to elementary / fundamental aspects of the entire syllabus.

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Part II (50 marks) will consist of **eight** questions out of which the candidate will be required to answer **five** questions, each carrying **10 marks**.

Please refer to the Council Syllabus 2023 for details.

FASHION DESIGNING

CLASS XI

Name of the textbook: **Course of Fashion Design – Study Content Class XI**

Author: **Mrs. Shipra Anand**

Publisher: **Self Published by the Author**

MAY - NOVEMBER		
Suggested Month	Chapter Number	Name of the Chapter
May - July		Module 1: Introduction to Fashion
	1	Definitions
	2	Classification of Fashion
	3	Fashion Cycle
	4	Careers in Fashion (A) The Apparel Industry setup (B) Careers in Fashion
	5	Fashion Terminology
	6	Fashion and Current Trends
August – September		Module 2: Design Details
	1	Types of Design
	2	Elements of Design
	3	Principles of Design
September – October		Module 4: Designers
	1	Indian Designers
	2	International Designers
November		HALF-YEARLY EXAMINATION

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DECEMBER - MARCH		
December – January		Module 3: Wardrobe Planning
	1	Different Figure Types
	2	Buying Fabrics
	3	Clothing as a Powerful Resource
		Module 5: Care of Clothes
	1	Common Stains and their removal
February	2	Stain Removal Methods
	3	Storage and Maintenance of Clothes
	4	Principles of Closet Organization
March		ANNUAL EXAMINATION

LIST OF PRACTICALS

1.	Hand Embroidery stitches
2.	Cutting & finishing techniques
3.	Basic Illustration
4.	Taking Measurements
5.	Accessory Making workshop

There will be two papers in the subject.

Paper I: Theory: 3 hours ... [70 Marks]

Question 1 is Compulsory. Candidates will be required to answer **four** questions out of **seven** questions.

Paper II: Practical [30 Marks]

File – [15 Marks]

Continuous Assessment – [15 Marks] (Unit Test)

Please refer to the Council Syllabus 2023 for details.

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POLITICAL SCIENCE

Name of the textbook: Political Science (Political Theory and Contemporary Relations)

Author: K K Ghai

Publisher: Kalyani Publishers

MAY – NOVEMBER			
Suggested Month	Chapter Number	Name of the Chapter	Page
May - July	1	Introduction to Political Science	3-26
	2	Fundamental Concepts	27-52
	3	The Origin of the State	53-82
	10	International Relations: An Introduction	189-196
	11	End of Cold War: Impact on World Order	197-211
August	4	Political Ideologies: Liberalism, Socialism, Communism and Fascism	83-115
	5	Sovereignty	116-138
	12	Disintegration of Soviet Union: Impact on World Order	212-222
September	6	Law	139-148
	7	Liberty	149-164
October	13	Uni-Polar World: US Unilateralism	223-232
		REVISION	
November		HALF-YEARLY EXAMINATION	

DECEMBER – MARCH			
December	8	Equality	165-174
	9	Justice	175-186
January	14	Regional Cooperation: ASEAN & European Union	233-247

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	15	Non-Alignment and Non-Aligned Movement	248-271
February		REVISION	
March		ANNUAL EXAMINATION	

Note:

There will be **two** papers in the subject:

Paper I: Theory: 3 hours ... 80 marks;

Part I: **(20 marks)** will consist of compulsory short answer questions from the entire syllabus.

Part II **(60 marks)** will be divided into **two sections A and B**. Candidates will be required to answer **three** questions out of **five** from Section A and **two** questions out of **three** from Section B. Each question carries 12 marks.

Paper II: Project Work (20 marks) Only **ONE**.

Please refer to the Council Syllabus 2023 for details.

LEGAL STUDIES

MAY – NOVEMBER			
Suggested Month	Chapter Number	Name of the Chapter	Page
May - July	Unit 1 & Unit 2	Historical Evolution of Indian Legal System & Law and Jurisprudence	
August	Unit 2 & Unit 7	Law & Jurisprudence + Fundamental Rights	
September	Unit 7	Fundamental Rights	
October	Unit 3 & Unit 4	Concept of Legal Personality + Criminal Law & Procedure	
		REVISION	
November		HALF-YEARLY EXAMINATION	

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DECEMBER - MARCH			
December	Unit 4	Criminal Law & Procedure	
January	Unit 5	Civil Law & Procedure	
February	Unit 6	Family Law	
		REVISION	
March		ANNUAL EXAMINATION	

There will be **two** papers in the subject:

Paper I – Theory: 3 hours – (70 marks)

Paper II – Project Work – (30 marks)

Paper I (THEORY) – 70 marks

Part I (20 marks) will consist of **compulsory** short answer questions covering the entire syllabus.

Part II (50 marks) will consist of **eight** questions out of which the candidate will be required to answer **five** questions, each carrying **10 marks**.

Please refer to the Council Syllabus 2023 for details.