XAVIER SCHOOL GAMHARIA

Syllabus for the Academic session (2023-24)

Class- XI (SCIENCE)

Subject: Chemistry Name of book: ISC Chemistry, class XI(Nageen Prakashan)

EXAM	CHAPTERS	PROJECT	ACTIVITY	
1 st Unit	1. Some basic concept of chemistry.			12
1 st Semester	2.Structure of atom			14
	3. Classification of elements & periodicity in properties	Lab manual(5 marks) +		8
	9. Hydrogen	practical exam		8
	12. Organic chemistry : GOC	(15 marks)	Making of soan	14
	13. Hydro Carbons		,nail paint ,lip	12
2 nd Unit	4 chemical bonding and molecular structure		balm ,chalk etc.	14
	5.States of matter: gases and liquids			12
2 nd semester	6.Chemical thermodynamics 7.equilibrium	Lab manual(5 marks) +		16
	10. S block elements	practical exam		14
	11. P block elements	(15 marks)		10
	14. environmental chemistry			14
				06

Subject - Physics

BOOK: NOOTAN ISC PHYSICS

EXAM	CHAPTERS	PROJECTS/ASSIGNMENTS
1 st UNIT TEST	Ch-1: Physical World and Measurement	
(20 marks)	Ch-2: Kinematics	
1 st SEMESTER	Ch-3: Laws of Motion	Practical done during the
(70 marks)	Ch-4: Work, Energy and Power	session.
	Ch-5: Motion of System of Particles and Rigid	(Practical-15 marks
	Body	Lab manual-5 marks)
	(Including ch-1 & 2)	
2 nd UNIT TEST	Ch-6: Gravitation	
(20 marks)	Ch-7: Properties of Bulk Matter	
2 nd SEMESTER	Ch-8: Heat and Thermodynamics	Practical done during the
(70 marks)		session.

Ch-9: Behaviour of Perfect Gases and Kinetic	(Practical-15 marks
Theory of gases	Lab manual-5 marks)
Ch-10: Oscillations and Waves	
(Including ch-1 to 7)	

SUBJECT: BIOLOGY

NAME OF THE BOOK: ISC BIOLOGY

EXAM	CHAPTER	PROJECT	ACTIVITY
1 ST Unit - 20 marks	Chp-2 Biological classification		
1 st Semester –	Chp-2 Biological classification	Any topic	
70 marks	Chp-3 Plant Kingdom	within the	Lab work to
	Chp-4 Animal Kingdom	scope of the	be done.
	Chp-5 Morphology of Flowering Plants	syllabus.	
	Chp-6 Anatomy of Flowering Plants		
	Chp-7 Animal Tissues, Morphology and		
	Anatomy of Cockroaches		
	Chp-8 Cell: Unit of Life		
	Chp-9 Biomolecules		
	Chp-10 Cell Cycle and Cell Division		
	Chp-11 Transport in plants		
Practical Exams-	Practicals done during the semester.		
15 marks			
2 nd Unit - 20 marks	Chp-12 Mineral Nutrition		
	Chp-13 Photosynthesis in Higher plants		
2 nd Semester-	Chp-14 Respiration in Plants		Lab work to
70 marks	Chp-15 Plant Growth and Development		be done.
	Chp-16 Digestion and Absorption		
	Chp-17 Breathing and Exchange of gases		
	Chp-18 Body Fluids and Circulation		
	Chp-19 Excretory products and their		
	function		
	Chp-20 Locomotion and Movement		
	Chp-21 Neural Control and Coordination		
	Chp-22 Chemical Co-ordination and		
	Integration		
Practical Exams-	Practicals done during the session.		
15 marks			

Distribution of marks for both the semester- Internal assessment-30 marks {unit test(20 marks)/2+practical exam(15 marks)+lab manual(5 marks)} + **Theory exam-70 marks**

Note: All the chapters of first semester are also included in second semester examination along with second semester portion. Second semester question paper to be sent by CISCE.

Subject :- Mathematics Name of the book :- Understanding ISC Mathematics

EXAM	CHAPTERS	PROJECT	ACTIVITY
1 st Unit	Chapter 5		
	Complex number		
	Chapter- 1		
	Sets		
1 st Semester	Chapter 5	Using a Venn diagram, find the	To plot graphs of
	Complex Number	number of subsets of a given set	sinx and sin2x
	Chapter 1	and verify that if a set has 'n'	
	Sets	number of elements, the total	
	Chapter 2	number of subsets is 2n.	
	Relation And Function		
	Chapter 3		
	Trigonometry		
	Chapter 10		
	Sequences and Series		
	Chapter 14		
	Statistics		
	Chapter 6		
	Quadratic Equation		
	Chapter 7		
	Linear and Quadratic		
	Inequalities		
	Chapter 4		
	Principle of		
	Mathematical		
	Induction		
2 nd Unit	Chapter 9		
	Binomial Theorom		
	Chapter 15		
	Probability		
2 nd Semester	Chapter 9	Write geometrical significance of X	To Construct an
	Binomial Theorom	coordinate, Y coordinate, and Z	ellipse using a
	Chapter 15	coordinate in space. Using the	rectangle
	Probability	above, find the distance of the point	
	Chapter 8	in space from x-axis/y-axis/z-axis.	
	Permutations and	Explain the above using a three-	
	Combinations	dimensional model/ power point	
	Chapter 11	presentation.	

Straight Lines	
Chapter 12	
Circles	
Chapter 13	
Limits And	
Derivatives	
Section B	
Chapter 1	
Conic Section	
Chapter 2	
Introduction To Three	
Dimensional	
Geometry	
Chapter 3	
Mathematical	
Reasoning	

Subject: – Computer Science NAME OF THE BOOK: - UNDERSTANDING ISC COMPUTER SCIENCE

EXAM	CHAPTERS	PROJECT/ACTIVITY
1 st Unit	Chapter – 1 Number System	Program Based On
	Chapter – 4	Numbers and Conversion Of
	Introduction to Java Language	One Number System To
	Chapter – 5 Concept of Data types	Another Number System.
	Chapter – 6 Operators & Expressions	
	Chapter – 7 Conditional &	Program Based On
	Looping Statement	Numbers and Date in java.
1 st Semester	Chapter – 8 Methods & Constructor	Program Based On
	Chapter – 12 Recursion	Function, constructor and
		recursion in java.
2 nd Unit	Chapter – 2 Encodings	Program Based On Arrays
	Chapter – 3 Propositional Logic & Hardware	(S.D.A And D.D.A)
	Chapter – 14 Packages	
	Chapter – 10 Arrays SDA / DDA	
2 nd Semester	Chapter – 09 Character Handling and String	Program Based On character
	Manipulation	and String manipulation.
	Chapter – 13 Implementation of Algorithm to	
	solve problems	
	Chapter – 11	
	Input/output Data File Handling	
	Chapter – 15	

Trends in Computing and Ethical Issues	Program Based On File Handling.

EXAM PATTERN

Exam / Assignment / Project	Marks	Converted Marks	Final Marks
Unit Test	20	10	
Lab Manual	5	5	30
Lab Test	15	15	
Semester Exam	70	70	70
Total			100

Subject – English Literature

Name of book: 1. Drama: Macbeth - William Shakespeare

2. Prism: A collection of ISC short stories

3. RHAPSODY: A collection of ISC poems

Exam	Portion	Project/Activity
1 st Unit	Poem 1: Abhisara: The Tryst Prose 1: A Living God Macbeth: Act I, Scene 1,2	
1 st Semester	Prose 2: Advice To Youth Prose 3: The Paper Menagerie Poem 2: Why I Like The Hospital Poem3: Sonnet 116 Macbeth: Scene 3,4	Project: Explain the 'weird sisters' and comment on the part played by them in the play
2 nd Unit	Poem 4: Death Of A Naturalist Prose 4: The Great Automatic Grammatizator Macbeth: Scene 5,6,7	Activity: Speak for around 2 mins on 'The main theme in the play Macbeth'.
2 nd Semester	Poem- 1 to 5 Prose- 1 to 5 Macbeth: Act 1 and 2	

SUBJECT: ENGLISH LANGUAGE

Aims (English Language)

To develop the ability to:

- derive, infer and critically assess information through listening.
- express oneself by speaking individually, or in a discussion.
- read with comprehension drawing information directly or by inference from the text, through an understanding of grammar and structure, vocabulary and idiom.

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

Paper 1: English Language (3 hours)

Question One: A composition on one of a number of subjects. ... 20 Marks

Question Two:(a) Directed writing (article writing, book review, film review, review of cultural programme, speech writing, report writing, personal profile, and statement of purpose) based on suggested points. ...15 Marks

(b) Proposal Writing based on a given situation. The proposal should include (i) The Heading (ii) Statement of Objective (iii) List of measures.

...10 Marks

Question Three: Short-answer questions to test grammar, structure and usage. ...15 Marks

Question Four: Comprehension. ...20 Marks

It is recommended that in Paper 1, about 45 minutes should be spent on Question one, 55 minutes on Question two, 30 minutes on Question three and

50 minutes on Question four.

Question One

Candidates will be required to select one composition

- employ a variety of skills in writing: within a framework, using argument or imagination or summarizing.
- use the English language for the purpose of study and social and cultural interaction.
- Speak and write clearly and to the purpose, using appropriate grammar, vocabulary and idiom
- use the English language for the purpose of stud

topic from a choice of *six*. The choice will normally include narrative, descriptive, reflective, argumentative, discussion topics and short story.

The required length of the composition is 400 - 450 words.

The main criteria by which the compositions will be marked are as follows:

- (a) The quality of the language employed, the range and appropriateness of vocabulary and sentence structure, syntax, the correctness of grammatical constructions, punctuation and spelling.
- (b) The degree to which candidates have been successful in organising the content of the composition as a whole and in individual paragraphs.

Question Two

There are *two* parts in this question and it is emphasized both parts are compulsory.

(a) The piece of directed writing will be based on the information and ideas provided. The required length will be about 300 words. The range of subjects may include article writing, book review, film review, review of cultural programme. speech writing, report writing, personal profile, and statement of purpose. Skills such as selecting, amplifying, describing, presenting reasoned arguments, re-arranging and re-stating may be involved. The candidates' ability in the above skills, including format will be taken into account as well as their ability to handle language appropriately in the context of the given situation.

(b) Candidates will be required to write a proposal based on a given situation. The candidate's ability to decide on the set of measures to be taken in a given situation will be taken into account. A heading and an objective must be stated.

Question Three

All the items in this question are compulsory, and their number and type / pattern may vary from year to year. They will consist of short-answer, open completion items or any other type, which will test the candidates' knowledge of the essentials of functional English grammar and structure. Only two or three types will be included in any one examination.

Question Four

A passage of about 500 words will be provided.

Questions based on the passage will be as follows:

- Questions that test the candidates' knowledge of vocabulary and ability to understand the content of and infer information and meanings from the text.
- A question that elicits the main ideas of all or part of the passage.

In this part of the question, the candidate will be required to frame a summary (keeping to a word limit), in a coherent manner. Marks will be awarded for expression and the candidate's ability

to summarise clearly in complete sentences. Marks will be deducted for linguistic errors.

It is recommended that this part be done in the grid form.

Use of abbreviations will not be accepted.

All questions are compulsory.

Project Topics(any one)

- 1. The text of a brochure
- 2. A product description
- 3. Description of a process Ex. Description of how to operate a device, cook a dish or conduct a scientific experiment
- 4. A description of a sporting event- Ex. A description of a cricket match
- 5. An autobiographical experience-Ex. The day I learnt the lesson of punctuality
- 6. A review of a T.V. serial- Ex. A reviewfavourable or unfavourable of any T.V. serial