

Content

English Literature

English Language

Chemistry

Maths

Physical Education (PE)

Biology

Computer

Physics

Lesson	Month	Торіс	Concept	Activity
No. Poem 1	Jun.	The Eve of waterloo	historic battle of water loo, atmosphere changed	historical refrences
	oun.		into sorrow, fear, gunfire, death bell of soldier.	
Story 1	lun	The Lost Jewels	post - modern narrative style, supernatural, lost	spoaking skills
Slory	Jun.	The Lost Jeweis		speaking skills
01 0			love, ghostly experience, jewellery, loneliness	
Story 3	Jun.	The Drover's wife	hard life of a woman, humour, critical situations	discussion - faces of a
				woman
Story 2	July	Lamb to the slaughter	house wife, in secured, murder, irony, suspense,	write suspense story
			humour, quick action appeals credible tale	
Poem 2	July	The last Ride To gether	monlogue, rejection inlove, pity, feelings, hopes	Recitation, Rhyming words
Drama	August	Arms & The man	introduction of characters, plot, story, The Reality	Role play
		(Act - I and Act-II)	of war, class discrimination, idealisation of love	
SA1 Exam	Sep.	Revision	Worksheet, Reference book, exercises	Brain Storming
Poem 3	Oct.	Mending wall	Veiws & attitudes, orthodoxy, dramatic, relationship	enlistworks of Robert Frost
Story 4	Oct.	The stolen Bacillus	Scientist, cholena bacillus, effective, wide spread	declamation - use of
			destruction, suspense, tention, humour, twist in end	biological weapons to
				create terror.
Poem 4	Nov.	Dulce ET Decorum Est	World war I, tragedy, futility, sufferings, no glory	Debate – "on wars"
			in fighting wars, condition of soldiers.	
Story 5	Dec.	Old love	tale of two scholars, competition, hatred, bad news	Live examples
			understanding, love, big post, tragedy	
Poem 5	Dec.	Do not go gentle into	fight against the imminent death, four categories	spaking skills
		that good night	of man, passion to live, struggle.	
Story 6	Jan.	Averyold man - with	human nature, greed, selfish, superstitions	write strange thing which
·		enormous wings	man-bird, peoples reactions, treatment to angel.	you have seen.
Poem 6	Jan.	Enterprise	metaphorical journey of life, satire, pilgrimage,	write a paragraph on
•			travellers, quite the team, hardships, struggle.	spiritual life.
Drama	Feb.	Arms and the man Act	Scene in library, discussion, soldiers (major)	Role play
Diama				
		III (Revision)	writing orders, releationships, marriage, war	

Syallabus

<u>Unit Test - I</u>

Poem 1 Story 1

<u>Unit Test - II</u>

Poem 3 Story 4

<u>SA-1</u>

Story 3, 2 Poem 2 Drama -Arms & the man (Act I & Act II)

<u>SA-2</u>

Poem 4,5,6 Story 5,6 Drama -Arms & the man (Act III)

Paper Style

Type of Questions

<u>Unit Test - I & II</u>

Q.1 Extract 10m

Q.2 Long. Question 10m

SA-1 & SA-2 (100 m)

Section A (Arms and the Man)

Q.1	Drama Extracts (any two out of three) 20m	
Q.2	Long Questions(Arms & the man) (Do any one out of two	20m
Q.3	Ling Question (Section B) ICSE short stories/poems	60m
	Do any three from four questions atleast one from each	

Note : Type of Questions are subject to change for all the paper style.

Lesson	Month	Торіс	Concept	Activity
No.		-		-
1.	June	Comprehesion 1 & 2	Reading, important points, meanings, clarity	live examples
		Report writting	Heading, date, place, content, Format, kinds	Format chart
		Composition -	an interesting incident, characters, dialogue &	incident (discussion)
		Narrative	Suitable background.	O de la compania de
		Gram - Testpaper 1 & 2	exercises, instructions, brackets, Fill ups	Solve exercise
2.	July	Comprehension 3, 4	meanings, Reading, clarity, understanding	writting skills
		Report writing travelogue	Heading, date, content, action, characters outl line	Fromat Rules
		& film review		
		Short stories	interesting title and content, action, characters out line, points.	frame sotry
		Gram-test paper 3 & 4	exercises, instructions, brackets, relationship	solve exercise
3.	Aug.	Comprehension-5,6	Clarity, meanings, exercise, sentence	examples
		Composition	description of some person, place, orthing, action	Describe your experience
		Descriptive	words, location	speaking skills
		Book review & test-	heading, place, date, content, information	Format chart
		imonial		
		Gram - testpaper 5 & 6	Instructions, brackets, sentence variety	Solve exercise.
	Sep.	Comprehension-7 & 8	Clarity, instructions, meanings, brackets	writing skills
		Report FIR, school	heading, date, place, information, content,	Format Rules
		Report	related opinions, topics.	
		Gram - Test paper	instructions, brackets, exercises, information,	Solve exercise "Puzzle"
		9 & 10 one word.	Fill ups, transformation suitable word.	word usage.
	Oct.	Comprehension 9,10	writing important words, clarity, understand	Reading skills
		composition –	social, political and domestic topics habits &	
		Re flective story	qualities, thoughts, abstract nature plot, intro,	writing skills
		writing Gram 11 & 12	content, interesting topic, action exercises,	frame story (dialouge)
			transformation, brackets, instruction.	exercises
	Nov.	Comprehenstion 13	Content, understanding, Reading, main points	Reading skills
		composition –	opinion,s views, strong ideas, words,	
		Argumentative	argument, action.	Debate
		Gram-test paper-13	brackets, instructions, headings, informations	Solve exercise
	Dec.	Comprehension-14	content, ideas, understanding, imp points,	Readings skills
		compo-narrative &	narrate incident, experience, strong points,	live examples
		Descriptive	plot, them describe, examples, instructions, brackets	, thinking skills
	<u> </u>	Gram-testpaper-14	headings, exercise.	
	Jan.	Comprehension - 15	Content, ideas, important points	writing skills
		Report - Accidents/	heading date, place, content, actionful,	Format Rules
		Disaster	force ful points, action conclusion	
		Gram-testpaper-15	questions, brackets, headings, exercise	exercise question
	Feb.	Reportwriting testimonial,	address, date, place, information, content	Format Rules
		Travelogue	relevent points, topic	
		Composition - Revision	arguments, opinion, ideas, views, strong, words	Debate
		Argumentative	oppose	from o oto a dai atom
		Story writing	topic, interesting squence, plot, theme	frame story/picture

<u>Unit Test - I (20 Marks)</u>	
Q.1 Composition	10m
Q.2 Grammar exercise	10m
Unit Test - II (20 Marks)	

Q.1	Report writing	10m
Q.2	Grammar exercise	10m

SA-1 & SA-2 (100

1.	Composition	30m
2.	Report writing	20m
3.	Grammar exercise	20m
4.	Comprehension	30m

Paper Style

<u>Unit Test - I</u>

Q.1 Write any one	Composition out	of two		10m	
Q.2 a. Fill in the bl	anks with most a	ppropriate word		5m	
b. Complete s	entence B, maki	ng it as similar ir	n meaning		
to sentence	A. Write down se	entence			
B. Complete i	n each case			5m	
<u>Unit Test - II</u>					
Q.1 Report writing	(Book review / fil	mreview)		10m	
Q.2 a. Fill in the bl	anks in the passa	age given below		05m	
with approp	riate form of verb	given in the bra	ackets.		
b. complete se	entence B, makin	it as similar in n	neaning to		
sentence A	, Write down sent	tence B complet	e in each case	05m	
<u>SA-1 & SA-2 (</u> 100	Marks)				
Q.1 Write a compo	osition (in 450 - 5	00 words) on an	y one of the follo	wing subjects.	30m
a. Narrative	b. descriptive	c. Reflective	d. Argumentati	ve	
e. Frame story	1				
Q.2 Report writing	(300 - 350 words	s)			20m
a. Accident	b. disaster	c. travelogue	d. testimonial		
e. FIR	f. School Repo	ort			
Q.3 Answer Section	ons (a), (b) and (c	;)			20m
a. Complete s	entence B, makir	ng it as similar in	n meaning to sen	tence A write down	
sentence B	complete in each	n case			10m
b. Fill in the bl	ank with the mos	t appropriate wo	ord. (Do not write	the sentence)	05m
c. Fill in the bl	anks in the passa	age given below	with appropriate	form of verb given	05m
in the brack	ets.				
Q.4 4 Read carefu	Ily the pasage give	ven below and a	answer the quest	ions	30m
(a), (b) and	(c) that follow.				

Lesson No. Month Topic Concept Activity 1. Jun. Ch.1 -Properties of matter and their measurement, Some Basic concepts SI units precision and accuracy. of chemistry Numericals and volum -Particulate Nature of matter Numericals and volum preparations. -Atomic and Isotopic masses molecular mass and formula mass Atomic and Isotopic masses molecular mass and formula mass -Atomic and Isotopic masses Mode activations. -Valency, chemical equivalents, volumentric calculations. Valency, chemical equivalents, volumentric calculations. Numericals Ch.5 States for matter -Three states of matter Numericals -Deviation from Ideal behaviour -Liquid state -Deviation from Ideal behaviour -Liquid state -Properties and uses of group-1 and group-2 Lab mannual 3 Aug. Ch.12 -Basic principle and Technique Fractical from -Properties and uses of group-1 and group-2 Lab mannual 3 Aug. Ch.2 -Alse Properties and uses of group-1 and group-2 Lab mannual 4. Sept. Ch.2 -Alse Properties and uses of group-1 and group-2 Lab mannual 5.				Chemistry	
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 Electro magnetic spectrom Atomic spectra. Shapes of s, p, d, f orbitals 	4.	Sept.			
Atomic spectra.Shapes of s, p, d, f orbitals			structure of atom		
– Shapes of s, p, d, f orbitals					
- Electronic configuration.					
	F	0.1	Ch 44	_	
5. Oct. Ch. 11 – Occurence and uses of Group-13 elements	5.	Oct.			
Some P-block – Properties nad uses of Boron & Aluminium Practicals from					
elements – Occurence and uses of Group-14 elements Lab manual			elements		Lab manual
 Properties, uses and some preparation of carbon 					
family.				family.	

Lesson No.	Month	Торіс	Concept	Activity
6.	Nov.	Ch. 7 Equilibrium	 Reversible and Irreversible reactions Chemical Equilibrium Le - Chatelier's principle and its application Ostwald's dilution law Acid - base equilibrium Common ion effect Solubility product. 	derivations & Numericals
7.	Dec.	Ch. 13 Hydrocarbon	 Nomenclature Preparation and properties of alkanes and alkenes Aromatic compounds Properties, preparation and derivatives of benzene. 	
8.	Jan.	Ch. 6 Chemical Thermodynamics Ch. 4 Chemical bonding and molecular structure	 Internal Energy Work done Enthalpy Heat capacity Entropy Ionic bond, covalent bond, sigma & pi bonds. Shapes of molecules Hybridizations Molecular orbital theory. 	Derivations & Numericals
9.	Feb.	Ch. 8 Redox Reactions	Oxidation and ReductionTypes and application.	Numericals

Unit Test - I (20 Marks)

Ch. 1 and ch. 5

Unit Test - II (20 Marks)

Ch. 11, 7 (part-A)

SA-1 (70 Marks)

Ch. 2,3,9,10,12

<u>SA-2 (70 Marks)</u>

Ch. 4,6,7,13

Paper Style

Unit Test - I & II (20 Marks)

<u> Part - I</u>

- Objective type questions (Compulsory que.)
- definition, choose the correct options, formula, Numericals, predict the product / Reactant / Catalyst.
- IUPAC Name, Common name, structural formula.
- Complete the Reaction, properties / uses / characteristics.

10marks

Part - II (10 marks)

- Short answer, long answer, Describe in detail
- Types, Give Reasons, Mechanism.
- What happen when
- Preparation, Derivations, Numericals
- Identification.

SA-1 & SA-2 (100 Marks)

(Types of questions will be same as above)

Total Marks = 70 Marks

- Part I (20 Marks Compulsory question)
- Part II (50 Marks) (Section A,B,C given below)
- Section A (any Two out of Three) (10 marks each)
- Section B (any Two out of Three) (05 marks each)
- Section C (any Two out of Three) (10 marks each)

Note : Type of Questions are subject to change for all the paper style.

			Maths	
No.	Month	Торіс	Concept	Activity
1.	June	Ch.2	• i and higher powers	Geometrical
		Complex Numbers	Conjupate	representation of complex
			• Modulus	Number x+iy.
		Ch.3	Use of formula	Represent Quadratic
		Quadratic Equations	Nature of roots	function on Graph Paper
			Sign of Quadratic	
			Quadratic Inequalities	
		Ch.4 Finite and	Arithmatic Progression	
		Infinite sequences	Geometric Progression	IIT Question
			Harmonic Progression	Worksheet
			Special sums.	
		Ch. 6	Proof of various summations and	
		Mathematical Induction	divisibilty.	
2.	July	Ch. 5	Permutations	Practical Application
		Permutations and	Combinations problem sums.	in Real lite.
		combinations.		
		Ch. 7	PASCAL'S Triangle	solving Algebraic
		Binomial Theorem	• Expansion of (x+y) ⁿ ,(1+x) ⁿ Applying the	Identities
			theorem of approximations	(x+y) ² , (x-y) ³ using
			eg. (0.99) ⁸ =(1–0.01) ⁸	Binomial theorem.
		Ch. 8	degree and radians	
		Angles and Arc lengths	• Relation S=r θ .	Explanation of clock (Angles & Arc)
3.	Aug.	Ch. 9	Domain and Range of trigonometric	Discuss the practical
		Trigonometrical Functions.	functions.	Applications of Trigonometry.
		Ch. 10	Addition and subtraction formula.	33
		Compound and Multiple	Sum and difference as products.	"
		Angles.		
4.	Sep.	Ch. 11 Trigonometric	Solution of trigonometric Equations.	
		Equations.		
		Ch. 12. Relations &	BASIC Idea of what Range and Domain is	Relation friend, brother
		functions.		etc.
5.	Oct.	Ch. 13 Limits	Meaning and sums	Group Discussion
		Ch. 14 Continuity	Continuity of a function at a point x=a	
		Ch. 15 Differentiation	Geometrical Interpretation.	
		Ch. 16 Application of	• First Principles	Group Discussion
		Derivatives	• Equation of Tangent, Normal	
			Rate Measure	
6.	Nov.	Ch. 17 Integration	Anti - derivatives formulas	Oral Test
		Ch. 18 Basic Concepts	• Straight line	
		points and their	• Circles	
7.	Dec.	co-ordinates.	Slope and	Oral Test
1.	Dec.	Ch. 19 The straight line	Slope and Equation forms	
			Angles. Distance Formula	

Lesson No.	Month	Торіс	Concept	Activity
		Ch. 20 The Circle	Equations	Oral Test
			Standard Form	
			Diameter Form	
8.	Jan.	Ch. 21 Measures of	Finding out	
		Central Tendancy	Mean by all methods	Group Discussion of
				Std. 10 th . topic
		Ch.22 Standard Deviation	 Finding out by all methods 	Group Discussion
			Section - B	
9.	Feb.	Ch. 23 Vectors	Position Vector	
			It's Component	Group Discussion
			• $\hat{i} \hat{j} \hat{k}$ sum	
			Section formula	
		Ch. 24 Points and their	Distance Formula	Group Discussion
		Co-ordinates	Equations	
		in 3 - dimensions	Direction ratios, Direction cosines	Oral Test
			Conditions for parallel and perpendicular.	

Unit Test - I (20 Marks)

Ch. 2,3,4,6 <u>Unit Test - II (20 Marks)</u> Ch. 13,14,15,16

SA-1 (100 Marks)

Ch. 2 to 11

SA-2 (100 Marks)

Whole Book

Paper Style

Unit Test - I & II (20 Marks)

All Questions are compulsory Questions having 3 parts each. (3,3,4)

<u>SA-1 (</u>100 Marks)

Qustion 1-10 Questions carrying 3 marks each. (30 marks) (compulsory) Attempt 7 Questions out of 11 Questions each having 2 sub parts carrying 5 marks each. (70 marks)

<u>SA-2 (</u>100 Marks)

Section-A Will consist of nine questions (80 m)

Candidates will be required to answer question 1 (compulsory) and five out of rest of the eight questions. **Section - B** Candidates will be required to answer two questions out of three from this section. (20m) **Note : Ch-1 has been omitted.**

Note : Type of Questions are subject to change for all the paper style.

		Phys	ical Education (PE)	
No.	Month	Торіс	Concept	Activity
1.	Jun.	Effect of physical	Various systems and the effecte of exercise and	
		Exercise on Human	training on the following skeletal system, muscular	
		Body systems.	system, respiratory system, circulatory system and	
			digestive systems.	
2.	July	Nutrition, Weight control	Nitrition Basics, Balanced Diet and role of balanced	
		and Exercise	diet in performance, obesity and weight control.	
3.	August	Physical fitness &	Physique, physical Fitness and wellness.	
		wellness	Componsents of physical fitness and wellness,	
			Factors affecting physical fitness and wellness.	
			Tests and measurments in sports.	
4.	Sep.	Physical Fitness &	Continue	
		wellness		
5.	Oct.	Concept of Physical	Meaning of physical Education, it aim and objectives	
		Education.	Importance of physical Education, Meaning of 'Play'	
			and 'Recreation' Meaning and concept of "Games	
			and sports."	
6.	Nov.	Individual Aspects and	Interest, attitude, Motivation, Leadership.	
		Group Dynamics.		
		Games and sports	Olympics as a social Force& Asian Games.	
7.	Dec.	Games	Knowledge of the game, strategies, tacties, etc.	

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 sysllabus. 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 question shall carry 15 marks.

Paper Style

<u>SA-1</u>

- 1. Effects of physical Exercise on Human Body Systems.
- 2. Nutrition Weight control & Exarcise.
- 3. Physical Fitness & wellness
- 4. Games.

<u>SA-2</u>

- 1. Concept of physical Eduction.
- 2. Individual Aspectsand group Dyanamics.
- 3. Games and Sports a global perspective
- 4. Games.

Biology				
No.	Month	Торіс	Concept	Activity
1.	Jun.	1. System of	Classification	Study & identification of
		Classification		specimens
		2. Kingdom	Study of Monera, Protiista, Fungi	Study & identification of
		Monera, Protista, Fungi		specimens
		3. Plant Kingdom	Bryophyta, Thallophyta, Pteridophyta, Angionspem,	Study & identification of
				specimens
		4. Animal Kingdom	Chordate & Non Chordate	Study & identification of
				specimens
2.	July	ContinuousAnimal		
		Classification		
		5. Plant Tissue	Study of Plant tissue	Study of permanent slides
				of plant tissue
		6. Animal Tissue	Study of Animal tissue	Study of permanent slides
				of Animal tissue
3.	Aug.	19. Bimolecular	Carbohydrates, protein, lipids & minerals	Study the test for
				carbohydrates, protein,
				lipids, minerals
		20. Enzymes Revision	Properties of enzymes, classification & mode action	Study the enzyme
			of enzymes	(Amylase) activity.
4.	Sep.	21. Call The Basic Unit	Prokaryotic cell, Eukaryotic cell, Plant cell & Animal	to make a temporary slide
		of Life	cell & their organelles.	of the plant cell, Bacterial
				cell & animal cell.
5.	Oct.	22. Cellular	Glycolysis, TCA cycle, Electron transport Chain.	
		Respiration	Aerobic Respiration & Anaerobic Respiration	
6.	Nov.	12. Nutrition & digestion	Dentition, Nutrition, digestive system of Human	To study sallvary Amaylase
		in Human		Activity on starch.
7.	Dec.	13. Respiration in Human	Respiratory system of Human, Gas exchage	
			process during respiration, Lungs Volumes.	
		14. Circulatory system	Open & close circulatory system, Blood	Study the permanent
		in Human	Structure of Heart, Double circulation.	slide of blood.
		15. Excretion in Human	Unrinary excretory system, structure of Nephron	Study the model of uninary
			Urine formation process.	excretory system.
8.	Jan.	16. Endocrine system	Endocrine & Exocrine system, Pituitary gland,	
		in Human	Endocrine system.	
		17. Nervous system in	Structure of neuron, structure of brain, spinal cord,	Study the model of
		Human	Eye structure & Ear structure, PNS, ANS	Human Brain.
9.	Feb.	ear		
10.	Mar.	23.Locomotion &	Skeletion system of Human, Structrue of	Study the model of
		movement in Human	bone.	skeleton system.
		Revision		

Unit Test - I (20 Marks)

Ch. 1,2,3,4

Unit Test - II (20 Marks)

Ch. 22,12

SA-1 (70 Marks)

Ch. 5,6,19,20,21

SA-2 (70 Marks)

Ch. 13 to 18, 23

Paper Style

Paper Style for Unit Test & SA-1 & 2

<u>Section - A</u> (Attempt all question)

(Objectives Type Questions)

- Name the following
- Fill in the Blanks
- Odd out & give category
- Define terms

Section - B

(Descriptive type Question)

- Draw & labeled diagram
- Give scientific reason
- Differentiate between

<u> Unit Test-! & 2 (20 Marks)</u>

Section-I (10 Marks)

Attempt all questions

Objectives Type Questions

Section-II (10 Marks)

Attempt any one questions from two

Descriptive type Questions

Each Question has two sub parts like (a) & (b).

Each question shall carry 10 marks (5+5)

SA-1 & 2 Theory (70 Marks)

Section-I (20 Marks) Attempt all question Q.1 Objectives type questions Section-II (50 Marks) Section-A (10 Marks) Attempt any two questions from three Q.2, Q.3, Q.4 } (a. 2 marks) (b. 2 marks) (c. 1 marks) Section-B (20 Marks) Q.5, Q.6, Q.7 } (a. 4 marks) (b. 4 marks) (c. 2 marks) Section-C (20 Marks) Q.8, Q.9, Q.10 } (a. 4 marks) (b. 4 marks) (c. 2 marks) SA-1 & 2 Practical (Total Marks-20) SA-1 & 2 Project Work (Total Marks-10)

- Give scientific terms
- True of False
- State function

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- Differentiate between
- Experiment set up base question
- Write short note on
- Describe process

- MCQ
- Mention location
- 1

	1		Computer	
No.	Month	Торіс	Concept	Activity
1.	April	Ch. 1 Number systems	Representation of numbers in different base and	Practice of various
		and arithmetic	interconversion between them (e.g. Binary, octal,	
		conversions	decimal, hexadecimal) Addition and subtraction	
			operations for numbers in different bases . Binary	
			encoding ASCII, Unicode.	
		Ch. 2 Internal structure	Computer system, primary and secondary memory	Group Discussion
		of a computer system	cache memory, input devices, output devices	
		Ch. 3 Simple hypothetica	Machine level language, assembly language,	Groupo discussion
		computer	microprocessor 8085, 8086, addressing modes.	
2.	June	Ch. 4 Basic concept of	Operating system and its tyeps, booting and its	Presentation of various
		Operating system	types, working with linux and windows OS.	Os with there versions.
		Ch. 5 Propositional logic,	Proposition, compound proposition, Tautology	Practice of various
		logic gates and boolean	and contradiction, logic gates, boolean postulates	numericals
		algebra.	and laws, half adder and full adder.	
3.	July	Ch. 6 Basic concept of	POP, OOP, objects, classes, encapsulation,	Give real world examples
		object and classes	inheritance, abstraction, polymorphism, dynamic	of all the features.
			binding, compilation and interpritation of java.	
		Ch. 7 Concept of data	Tokens and its types, data types, variables	Make list of various
		types		words.
		Ch. 8 Operators and	Operators, Unary, binary, ternary, arithmatic,	Use of various operators
		expressions	logical operators	in Programming.
4.	Aug.	Ch. 9 General program-	Math package, Scanner class, if-else, switch case	Group Discussion
		ming and decision	scope of variables, testing, debugging.	
		making.		
		Ch. 10 Iteration through	Fixed iterations for loop; unfixed iterations while,	Generations of various
		loops	do - while loop.	patterns
		Ch. 11 Character Handling	Different functions for characters and strings; string	Practicals
		string manipulations	buffer functions; conversions from string to primitives	
			and vice-versa.	
5.	Sep.	Ch. 12 Dimentional	Arrays; 1D array, 2D array, searching, sorting	Working with 2-D array
		Arrays (1D and 2D)	insersion, deletion, merging.	
6.	Oct.	Ch. 13 Functions /	Defining a method, static and instant methods;	Practical application of
		methods	pass by value and pass by reference; pure and	methods
			impure functions, function overloading.	
		Ch. 14. Class as a user	Class, methods, variables, this keyword, default	Practical applications of
		defined functions.	constructor, parameterized constructor, copy	constructor.
			constructor.	
7.	Nov.	Ch. 15 Simple data	Stack, operations on stack - PUSH and POP,	Programming for queue
		structure	tower of hanoi, queue and operations of queueinser-	and stack.
			sion and deletion.	

Lession No.	Month	Торіс	Concept	Activity
		Ch. 16 File operations in java	Stream classes, Byte stream classes, input stream classes, output stream classes, character stream classes, reader stream classes, writer stream classes, file class.	Programs for the handling
8.	Dec.	Ch. 17 Computational complexity Ch. 18 Implementation of algorithms to solve problems.	Complexity time and space complexity Introduction, implementation, writing an algorithm	Group Discussion Group Discussion
9. 10.	Jan. Feb.	Ch. 19 Social context of computing and Ethical Issues Revision	Intellectual Property Right, Data protection on internet, e-mail etiquette, cyber crime, cyber law, phising.	Group Discussion

Syllabus

Unit Test - I (20 Marks)

Ch. 1,2,3

Unit Test - II (20 Marks)

Ch. 11,12,13,14,15

SA-1 (70 Marks)

Ch. 4,5,6,7,8,9,10

SA-2 (70 Marks)

Ch. ALL CHAPTERS

Paper Style

Paper Style for Unit Test

Part I	Short answer type questions (5 questions)	10marks		
Part II	Long answer type question (out of 2 attempt any 1)	10marks		
<u>SA-1 & 2 (70 Marks)</u>				
Part I	Short answer type question (10 questions)	20marks		
Part II	Section A (out of 3 need to attempt any 2)	20marks		
	Section B (out of 3 need to attempt any 2)	20marks		
	Section C (out of 3 need to attempt any 2)	10marks		

			Physics	
Sr. No.	Month	Торіс	Concept	Activity
1.	June	Ch-1 Units	Role of physics, SI Units, Fundamental and	Practical from Lab
			Derived units, Accuracy and errors in Measurement,	Manual
			least count of measuring instruments, Significant	
			figure.	
		Ch-2 Dimensions	Dimensional formula of physical quantities and	
			physical constants, Dimensional equation and its	
			use to check correctness of formula, relation	
			between physical quantities, limitations of Dimen-	
			sional analysis.	
2.	July	Ch-3 Vectors, Scalar	Scalar & vector quantities, Need of it, Representa-	Numericals
		Quantities & elementary	tion, Types, different laws, Mathematical operation	
		calculus	in two & three dimension.	Derivations
		Ch-4 Dynamics	Uniformly Accelerated motion, prajective motion	
			and Relative velocities in two Dimensions, Laws of	
			motion energy and power.	
3.	Aug.	Ch-4 Continue		
		Ch.5 Friction	Types of Friction, Advantage & Disadvantage,	Numericals
			method of reducing & increasing friction.	
4.	Sep.	Ch-7 Circular motion	Uniform circular motion, Different term in Rotational	
			motion, Laws of Rotional motion, Moment of Inertia	Numericals
		Ch-8 Gravitation	Universal law, characteristics of Gravitational force	
			Intensity, G.P. Esacpe velocity, diff. terminology	
			regarding satellite.	
5.	Oct.	Ch-9 Properties of	Elasticity, states of matter, surface tension, kinetic	
		matter	theory of gas temperature.	
6.	Nov.	Ch-10 Internal energy	Internal energy, change of phase, heat engine,	
			thermal conduction, thermal Radiation.	
7.	Dec.	Ch.13 Oscillation	Different terminology regarding oscillation, SHM	Practical from manual
			(simple harmonic motion) Types of oscillation	Numericals
8.	Jan.	Ch-14 Waves	• Wave motion, Sound wave, Superposition of wave,	
			Doppler effect.	
9.	Feb.	Ch-6 Motion of fluid	• Fluid pressure, Buoyancy and Archimedes'	
			principle, floation law, poiseuille's formula, stokes	
			law, pascal's law, critical velocity.	

Unit Test-1 (40 m)

Ch. 1,2

<u>Unit Test-2 (40 m)</u>

Ch. 7,8,9

<u>SA-1 (70 m)</u>

Ch. 3,4,5

<u>SA-2 (70 m)</u>

Ch. 10,13,14,6

Paper Style

Paper Style for Unit Test (40 Marks)

PART-I	Objectie type question (10m) compulsory questions
	Defination
	Choose correct option
	Numerical
	Formula based question
	Very short questions
PART-II	30 Marks (10 marks each)
	Short answer, Long questions, Describe with example, Derivation, numericals, liiustrations.

Paper Pattern for SA-1 (70 Marks)

(Types of questions will be same as above)

Total Marks = 70 Marks

PART-I 20 Marks (compulsory)

Short answer questions, testing knowledge, application and skill relating to elementary fundamental aspects of the syllabus.

PART-II 50 Marks

Section - A (any four out of six)	(7 marks for each question)
Section - B (any two out of three)	(6 marks for each question)
Section - C (any two out of three)	(5 marks for each question)

Note : Type of Questions are subject to change for all the paper style.