

Date Sheet Mid Term Exam (VI-XII)

Date & Day	VI	VII	VIII	IX	X	XI	XII
21.08.24 (Wednesday)	Regular Classes					Home Science	-
23.08.24 (Friday)	Science	Social Science	Mathematics	Social Science	English	Maths/ Applied Maths	Physics/ Accountancy/ Sociology
27.08.24 (Tuesday)	Mathematics	Science	Social Science	Mathematics	Science	Chemistry /B.Studies	Chemistry/ B.Studies /Pol.
29.08.24 (Thursday)	Hindi	English	Hindi	English	Punjabi	English	English
31.08.24 (Saturday)	-	-	-	-	Social Science	Physical Education	Maths/ Applied Maths
02.09.24 (Monday)	Social Science	Mathematics	Science	Hindi	IT/AI	Physics/ Accountancy/ Political Science	Economics / Biology
04.09.24 (Wednesday)	English	Hindi	English	Science	Mathematics	Economics / Biology/ Sociology	Physical Education/ IP
06.09.24 (Friday)	IT/AI	IT/AI	Punjabi	Punjabi	Hindi	Psychology	Home Science
09.09.24 (Monday)	Punjabi	Punjabi	IT/AI	IT/AI	-	IP	Applied Arts
10.09.24 (Tuesday)	-					Applied Arts	Psychology

CLASS: XI (Science)
SUBJECT: CHEMISTRY

TEXTBOOKS:

1. NCERT CHEMISTRY-PART-I
2. NCERT CHEMISTRY-PART-II

HALF YEARLY EXAMINATION (23 AUGUST 2024 to 9 SEPTEMBER 2024)

MONTHS	UNIT/ CHAPTER / TOPIC	SUBTOPICS	WEIGHTAGE (MARKS)
APRIL 2024 to AUGUST 2024	Chapter 1: Some basic concepts of Chemistry	<ol style="list-style-type: none">1. Importance and scope of Chemistry2. Nature of matter3. laws of chemical combination4. Dalton's atomic theory5. Atomic and molecular masses6. mole concept and molar mass7. percentage composition8. empirical and molecular formula9. stoichiometry and calculations based on stoichiometry	17
	Chapter2: Structure of Atom	<ol style="list-style-type: none">1. Sub atomic particles2. Atomic models3. Development leading to Bohr's model of Atom4. Bohr's Model for Hydrogen atom5. Towards Quantum Mechanical Model of an Atom6. Quantum mechanical model of atom	21

	Chapter 3: Classification of elements and Periodicity in properties	<ol style="list-style-type: none"> 1. Significance of classification 2. Brief history of the development of periodic table 3. Modern periodic law and the present form of periodic table 4. Nomenclature of elements with atomic number greater than 100. 5. Periodic trends in properties of elements 	15
	Chapter 4: Chemical bonding and molecular structure	<ol style="list-style-type: none"> 1. Kossel lewis approach to chemical bonding 2. Covalent and ionic bond 3. Bond parameter 4. VSEPR theory 5. Valence bond theory 6. Hybridisation 7. Molecular orbital theory of homonuclear diatomic molecules(qualitative idea only) 8. Hydrogen bond 	17
TOTAL MARKS			70

CLASS: XI

SUBJECT: MATHEMATICS

TEXTBOOKS:

1. Mathematics - Textbook for class XI - NCERT Publication
2. Mathematics exemplar problems for class XI, NCERT publication

HALF YEARLY EXAMINATION (23 AUGUST 2024 to 9 SEPTEMBER 2024)

MONTHS	UNIT/ CHAPTER / TOPIC	SUBTOPICS	WEIGHTAGE
APRIL 2024 to AUGUST 2024	: Sets and Functions <ul style="list-style-type: none"> • Sets • Relations & Functions • Trigonometric Functions 	Sets Sets and their representations, Empty set, Finite and Infinite sets, Equal sets, Subsets, Subsets of a set of real numbers especially intervals (with notations). Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set. Properties of Complement.	12
		Relations & Functions Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the set of reals with itself (upto $R \times R \times R$). Definition of relation, pictorial diagrams, domain, co- domain and range of a relation. Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions, with their graphs. Sum, difference,	18

		<p>product and quotients of functions.</p> <p>Trigonometric Functions</p> <p>Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity $\sin^2x + \cos^2x = 1$, for all x. Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing $\sin(x \pm y)$ and $\cos(x \pm y)$ in terms of $\sin x$, $\sin y$, $\cos x$ & $\cos y$ and their simple applications. Deducing identities like the following: $\tan(x \pm y) = \frac{\tan x \pm \tan y}{1 \mp \tan x \tan y}$, $\cot(x \pm y) = \frac{\cot x \cot y \mp 1}{\cot y \pm \cot x}$, $\sin(\alpha \pm \beta) = \sin \alpha \cos \beta \pm \cos \alpha \sin \beta$, $\cos(\alpha \pm \beta) = \cos \alpha \cos \beta \mp \sin \alpha \sin \beta$. Identities related to $\sin 2x$, $\cos 2x$, $\tan 2x$, $\sin 3x$, $\cos 3x$ and $\tan 3x$.</p>	22
	Calculus	<p>Limits and Derivatives</p> <p>Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions. Definition of derivative relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.</p>	20
	Statistics	<p>Statistics</p> <p>Measures of Dispersion: Range, Mean deviation, variance and standard deviation of ungrouped/grouped data.</p>	8
TOTAL MARKS			80

CLASS: XI

SUBJECT: ECONOMICS

TEXTBOOKS:

1. NCERT

2. T. R Jain and Sandeep Garg

HALF YEARLY EXAMINATION (23 AUGUST 2024 to 9 SEPTEMBER 2024)

MONTHS	UNIT/ CHAPTER / TOPIC	SUBTOPICS	WEIGHTAGE (MARKS)
APRIL 2024 to AUGUST 2024	Unit 1 (Statistics) Introduction	What is economics? Meaning, scope, functions and importance of Statistics in Economics	12.5% (10 marks)
	Unit 2 (Statistics) Collection, organization, and presentation of data.	Collection of data -sources of data -primary and secondary. How basic data is collected with concept of sampling, Methods of collecting data, Some important sources of secondary data. Census of India and NSSO. Organization of data: meaning and types of variables, frequency distribution. Presentation of data: Tabular presentation and Diagrammatic presentation of data: (I)Geometric forms (bar diagrams and pie diagrams), (II)Frequency Diagrams (Histogram, Polygon and Ogive) (III)Arithmetic line graphs.(time series graphs)	37.5% (30 marks)
	Unit 4 (Micro Economics) Introduction	Meaning of Microeconomics and Macroeconomics, Positive and normative economics. What is an economy? Central problems of an economy: What, how and for whom to produce, concepts of PPF and	12.5% (10 marks)

		opportunity cost.	
	Unit 5 (Micro Economics) Consumer's Equilibrium and Demand	<p>Consumer's equilibrium - meaning of utility, Marginal utility, Law of diminishing marginal utility, Conditions of consumer equilibrium using marginal utility analysis.</p> <p>Indifference curve analysis of consumer's equilibrium - the consumer's budget (budget set and budget line), preferences of consumer (indifference curve, indifference map) and conditions of consumer's equilibrium.</p> <p>Demand , Market demand, Determinants of demand, demand schedule, Demand curve and its slope, Movement along and shifts in the demand curve, Price elasticity of demand- Factors affecting price elasticity of demand, Measurement of price elasticity of demand- percentage change method and total expenditure method.</p>	37.5 (30 marks)
TOTAL MARKS			80 marks

(2024-2025)
SUBJECT: ENGLISH

CLASS: XI

TEXTBOOKS:

1. Hornbill
2. Snapshots

HALF YEARLY EXAMINATION (23 AUGUST 2024 to 9 SEPTEMBER 2024)

MONTHS	UNIT/ CHAPTER / TOPIC	SUBTOPICS	LEARNING OUTCOMES	WEIGHTAGE	
APRIL 2024 to AUGUST 2024	Reading Comprehension through Unseen Passages	1. Factual, descriptive, or literary Passage	To promote conceptual understanding, decoding, and analysis of literary texts, enabling inference, theme interpretation, and appreciation of conventions. Enhancing vocabulary and summarizing texts effectively.	10	
		2. Case-based Factual passage		8	
		3. Note-Making and Summarization		5+3=8	
	Grammar and Creative Writing Skills	1. Gap filling (Tenses, Clauses) 2. Reordering of Sentences/Transformation of Sentences		To develop the creative expression of an opinion, to enhance reasoning, justifying, and illustrating by using	7
		Short composition: 3. Classified Advertisements			3
		4. Poster Designing	appropriate format and style.	3	
		5. Speech Writing	Applying conventions, using integrated structures with accuracy and fluency.	5	
		6. Debate Writing		5	
	Literature Textbook and Supplementary Reading Text	Hornbill Lesson 1: The Portrait of a Lady Poem 1: A Photograph Lesson 2: We're Not Afraid to Die...If We Can All Be Together Poem 2: The Laburnum Top Snapshots Lesson 1: The Summer of the Beautiful White Horse Lesson 2: The Address Lesson 3: Mother's Day	To enhance reasoning, appreciating, and applying literary conventions. To enable extracting relevant information, identifying the central theme, understanding the writer's message and writing fluently.	31	
TOTAL MARKS				80	

CLASS: XI (Commerce)
SUBJECT: BUSINESS STUDIES
TEXTBOOKS:
NCERT-BUSINESS STUDIES

HALF YEARLY EXAMINATION (23 AUGUST 2024 to 9 SEPTEMBER 2024)

MONTHS	UNIT/ CHAPTER / TOPIC	SUBTOPICS	
APRIL 2024 to AUGUST 2024	Unit 1: Evolution and Fundamentals of Business (Business, Trade and Commerce – NCERT)	<ul style="list-style-type: none"> • History of Trade and Commerce in India • Business – meaning and characteristics • Business, profession and employment – Concept • Objectives of business • Classification of business activities - Industry and Commerce • Industry-types • Commerce-trade and auxiliaries to trade • Business risk-Concept 	
	Unit 2: Forms of Business organizations	<ul style="list-style-type: none"> • Sole Proprietorship • Partnership • Hindu Undivided Family Business • Cooperative Societies • Company • Formation of company • Choice of form of business organization 	
	Unit 3: Public, Private and Global Enterprises	<ul style="list-style-type: none"> • Public sector and private sector enterprises- Concept 	

		<ul style="list-style-type: none"> • Forms of public sector enterprises: Departmental Undertakings, Statutory Corporations and Government Company • Global Enterprises – Feature Joint venture Public private partnership – concept 	
	Unit 4: Business Services	<ul style="list-style-type: none"> • Business services – meaning and types. Banking: Types of bank accounts • Banking services with particular reference to Bank Draft, Bank Overdraft, and Cash credit. • E-Banking • Insurance – Principles, Types • Postal Service 	
TOTAL MARKS			80

CLASS: XI SUBJECT: PHYSICS

TEXTBOOKS:

1. PHYSICS - Textbook for class XI - NCERT Publication Vol. 1 & 2
2. Physics exemplar problems for class XI, NCERT publication
3. Concepts of Physics, H. C. Verma

HALF YEARLY EXAMINATION (23 AUGUST 2024 to 9 SEPTEMBER 2024)

MONTHS	UNIT/ CHAPTER / TOPIC	SUBTOPICS	WEIGHTAGE
APRIL 2024 to AUGUST 2024	Units and Measurements (8 periods)	Units of measurement; <ul style="list-style-type: none">• systems of units• SI units, fundamental and derived units• Significant figures• Dimensions of physical quantities,• Dimensional analysis and its applications.	8
	Kinematics (26 periods)	<ul style="list-style-type: none">• Elementary concepts of differentiation and integration for describing motion• Scalar and vector quantities;• position and displacement vectors• General vectors and their notations• Equality of vectors,	30

		<ul style="list-style-type: none"> • Multiplication of vectors by a real number; • Addition and subtraction of vectors • Unit vector • Resolution of a vector in a plane • Rectangular components, • Scalar and Vector product of vectors. <p>Motion in a Straight Line</p> <ul style="list-style-type: none"> • Frame of reference • Motion in a straight line • Uniform and non-uniform motion • Instantaneous velocity • Uniformly accelerated motion • Velocity - time and position-time graphs. • Relations for uniformly accelerated motion (graphical treatment). <p>Motion in a plane</p> <ul style="list-style-type: none"> • Cases of uniform velocity and uniform acceleration, • Projectile motion • Uniform circular motion • Intuitive concept of force, Inertia, 	
	<p>LAWS OF MOTION (14 periods)</p>	<ul style="list-style-type: none"> • Intuitive concept of force, Inertia, • Newton's first law of motion; • Momentum and Newton's second law of motion; 	<p>17</p>

		<ul style="list-style-type: none"> • Impulse • Newton's third law of motion • Law of conservation of linear momentum and its applications. • Equilibrium of concurrent forces • Static and kinetic friction, • Laws of friction • Rolling friction, lubrication. • Dynamics of uniform circular motion: <ul style="list-style-type: none"> • Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road). 	
	<p>Work, Energy and Power (12 periods)</p>	<ul style="list-style-type: none"> • Work done by a constant force and a variable force; • Kinetic energy, work-energy theorem • Power • Notion of potential energy, • Potential energy of a spring, • Conservative forces & non-conservative forces • Motion in a vertical circle; • Elastic and inelastic collisions in one and two dimensions. 	15

CLASS: XI
 SUBJECT: BIOLOGY
 TEXTBOOK:
 1. NCERT BIOLOGY

HALF YEARLY EXAMINATION (23 AUGUST 2024 to 9 SEPTEMBER 2024)

MONTHS	UNIT/ CHAPTER / TOPIC	SUBTOPICS	LEARNING OUTCOMES	WEIGHTAGE (MARKS)	
APRIL 2024 to AUGUST 2024	UNIT - I Diversity of Living organisms <u>Chapters</u> 1. The Living World	1. Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature 2. Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups; Lichens, Viruses and Viroids. 3. Classification of plants into major groups; Salient and distinguishing features and a few examples of Algae, Bryophyta, Pteridophyta, Gymnospermae 4. Salient features and classification of animals, non-chordates up to phyla level and	Classifies organisms, phenomena and processes, based on certain characteristics / salient features systematically in more scientific and organized manner; such as five kingdom classification system of organisms under various hierarchical structural organizations; natural resources, etc.	<u>25</u> (3)	
			2. Biological Classification	Applies scientific terminology for organisms, processes, and phenomena based on internationally accepted conventions;	(5)
			3. Plant Kingdom	Binomial nomenclature of organisms; coelom, bisymmetric body etc.; bisexual and unisexual organisms, actinomorphic and zygomorphic flowers, aestivation, placentation	(8)
			4. Animal Kingdom	Classifies organisms, phenomena and processes	(9)

	chordates upto class level.	based on certain characteristics/ salient features systematically in a scientific and organized manner	
UNIT – II Structural Organisation in Plants and Animals <u>Chapters</u> 5 Morphology of Flowering Plants 6. Anatomy of Flowering Plants 7. Structural Organisation in Animals	1. Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family Solanaceae 2. Anatomy and functions of tissue systems in dicots and monocots. 3. Morphology, Anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of frog.	Applies scientific concepts of Biology in daily life and solving problems. Handles laboratory tools, and apparatuses, instruments and devices properly for performing activities/ experiments/ investigations such as; uses microscope for observing internal structure of transverse section of root, stem and leaves Explains efficiently systems, relationships, processes and phenomena such as; organ systems in frog.	<u>20</u> (7) (6) (7)
UNIT – III Cell Structure and Function <u>Chapters</u> 8. Cell – The Unit of Life	1. Cell theory and cell as the basic unit of life, structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function; endomembrane system, endoplasmic reticulum, golgi bodies, lysosomes, vacuoles, mitochondria, ribosomes, plastids,	Describes contribution of scientists/researchers all over the world in systematic evolution of concepts, scientific discoveries and inventions in the field of biology based on historical scientific events/ timelines etc; such as; Anton Von Leeuwenhoek described a live cell and later, Robert Brown discovered the nucleus; in classification systems of living organisms, Aristotle was the earliest and then	<u>25</u> (8)

	9. Biomolecules	<p>micro bodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus.</p> <p>2. Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, and nucleic acids; Enzyme - types, properties, enzyme action. (Topics excluded: Nature of Bond Linking Monomers in a Polymer, Dynamic State of Body Constituents Concept of Metabolism, Metabolic Basis of Living, The Living State)</p>	<p>Linnaeus proposed two kingdom classification and later R. H. Whittaker proposed five kingdom classification, etc.</p> <p>Relates processes and phenomena with causes and effects, such as, characteristics of living with cell as basic structural and functional unit of life.</p> <p>Draws labelled diagrams, flow charts, concept maps, graphs and diagrams. Communicates the findings and conclusions effectively.</p>	(8)
	10. Cell Cycle and Cell Division	<p>3. Cell cycle, mitosis, meiosis and their significance</p>	<p>Applies scientific concepts and draws stages of Mitosis & Meiosis and correlates with real life.</p>	(9)
TOTAL MARKS				70

CLASS: XI
 SUBJECT: ACCOUNTANCY
 TEXTBOOKS:
 1. NCERT- ACCOUNTANCY (E-book)
 2. DOUBLE ENTRY BOOK KEEPING: T.S. GREWAL

HALF YEARLY EXAMINATION (23 AUGUST 2024 to 9 SEPTEMBER 2024)

MONTHS	UNIT/ CHAPTER / TOPIC	SUBTOPICS	WEIGHTAGE (MARKS)
PART A- FINANCIAL ACCOUNTING I			
APRIL 2024 to AUGUST 2024	Unit 1 Theoretical Framework	<p>a) Introduction to Accounting Accounting- concept, meaning, as a source of information, objectives, advantages and limitations, types of accounting information; users of accounting information and their needs. Qualitative Characteristics of Accounting Information. Role of Accounting in Business.</p> <p>b) Basic Accounting terms Entity, Business Transaction, Capital, Drawings. Liabilities (Non Current and Current). Assets (Non Current, Current); Expenditure (Capital and Revenue), Expense, Revenue, Income, Profit, Gain, Loss, Purchase, Sales, Goods, Stock, Debtor, Creditor, Voucher, Discount (Trade discount and Cash Discount)</p> <p>c) Theory Base of Accounting (Fundamental Accounting Assumptions & Concepts)</p> <ul style="list-style-type: none"> • Fundamental accounting assumptions: GAAP: Concept • Basic Accounting Concept : Business Entity, Money Measurement, Going Concern, Accounting Period, Cost Concept, Dual Aspect, Revenue Recognition, Matching, Full Disclosure, Consistency, Conservatism, Objectivity & Materiality • System of Accounting. Basis of Accounting: cash basis and accrual basis 	25

to know

		<ul style="list-style-type: none"> Accounting Standards: Applicability of Accounting Standards (AS) and Indian Accounting Standards (IndAS) Goods and Services Tax (GST): Characteristics and Advantages. 	
	Unit 2: Accounting Process	Recording of Business Transactions <ul style="list-style-type: none"> Voucher and Transactions: Source documents and Vouchers Accounting Equation Approach: Meaning and Analysis, Rules of Debit and Credit. 	12
		<ul style="list-style-type: none"> Recording of Transactions: Books of Original Entry- Journal (Including trade discount, freight and cartage expenses for simple GST calculation Ledger: Format, Posting from journal and subsidiary books, Balancing of accounts Trial Balance 	23
		<ul style="list-style-type: none"> Special Purpose books: Cash Book: Simple, cash book with bank column and petty cashbook <ul style="list-style-type: none"> -Purchases book - Sales book - Purchases return book - Sales return book - Journal proper 	20
TOTAL MARKS			80

Psychology	Unit 1: What is Psychology? Unit 2: Methods of Enquiry in Psychology, Unit 4: Human Development, Unit 5: Sensory, Attentional and Perceptual Processes
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Applied Arts	Unit One- :Pre-Historic Rock Paintings Chapter Two- Art of Indus Valley Civilization Chapter Three- General Introduction of Art during Mauryan, Shunga, Kushana and Gupta Period, Chapter Four- Art Of Ajanta
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Physical Education	UNIT 1 Changing Trends & Career in Physical Education UNIT 2 Olympic Value Education UNIT 3 Yoga UNIT 4 Physical Education & Sports for CWSN UNIT 5 Physical Fitness, Wellness UNIT 6 Test, Measurements & Evaluation.
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Informatics Practices	Unit 1: Introduction to Computer System Unit 2: Introduction to Python Basics of Python programming, if-else, for loop. List operations ,Dictionary, dictionary methods and built-in functions, def
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Sociology	Ch: Sociology and Society, Ch: Terms, Concepts and Their Use in Sociology, Ch: Understanding Social Institutions, Ch: Culture and Socialisation
Home Science	Unit-I Ch-1 Introduction to Home Science Unit-II Ch-2 Understanding The Self Ch-3 Food, Nutrition, Health and Fitness Ch-4 Management of Resources Ch-5 Fabric Around us Ch-6 Media Communication Technology Unit-III Ch- 7A Concerns and Needs in Diverse contexts-Nutrition, Health & Hygiene Ch-7B Resources Availability and Management

Applied Mathematics	Unit - 1 Numbers, Quantifications and Numerical Applications, Unit - 2 Algebra, Unit - 3 Mathematical Reasoning, Unit - 5 Probability, Unit - 6 Descriptive Statistics
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Pol. Science	PartA: 1.Constitution Why and how? 2.Rifhts in Indian constitution. 3.Election and representation. 4 Executive. 5.Legislarure 6.judiciary. 7.Federalism. 8 Local government 9. Constitution as a living document 10. The philosophy of Indian constitution
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