

Revision Exam Syllabus: 2021 - 22

STANDARD-11

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வகுப்பு : 11 பாடம்: பொதுத்தமிழ்

இயல்	பாடப்பொருள்		
1	செய்யுள் – யுகத்தின் பாடல் உரைநடை – பேச்சுமொழியும் கவிதை மொழியும் இலக்கணம் – மொழி முதல், இறுதி எழுத்துகள்		
2	செய்யுள் – ஏதிலிக்குருவிகள், காவியம், திருமலை முருகன் பள்ளு துணைப்பாடம் – யானை டாக்டர் இலக்கணம் – புணர்ச்சி விதிகள்		
3	உரைநடை – மலை இடப்பெயர்கள் ஓர் ஆய்வு செய்யுள் – புறநானூறு துணைப்பாடம் – வாடிவாசல் வாழ்வியல் – திருக்குறள்		
4	துணைப்பாடம் – இதழாளர் பாரதி		



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STANDARD: 11

SUBJECT: GENREAL ENGLISH

UNIT	CONTENT	
1	Prose	
	The Portrait of a Lady Poem	
	Poem	
	Once Upon a Time	
	Grammar	
	Articles and Determiners Tenses	
2	Prose	
	The Queen of Boxing Poem	
	Poem	
	Confessions of a Born Spectator	
	Grammar	
	Modals Prepositions	
3	Supplementary	
	The First Patient (Play)	
	Grammar	
	Concord	

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STANDARD: XI

SUBJECT: MATHEMATICS

UNIT	CONTENT		
	1.1 Introduction		
	1.2 Sets		
	1.2.1 Properties of Set Operations		
	1.4 Constants and Variables, Intervals and Neighborhoods		
	1.4.1 Constants and Variables		
	1.4.2 Intervals and Neighborhoods		
1. Sets, Relations	1.5 Relations		
and Functions	1.5.1 Type of Relations		
	1.6 Functions		
	1.6.1 Ways of Representing Functions		
	1.6.2 Some Elementary Functions		
	1.6.5 Inverse of a Function		
	1.6.6 Algebra of Functions		
	1.6.7 Some Special Functions		
	2.1 Introduction		
	2.3 Absolute Value		
	2.3.1 Definition and Properties		
	2.3.2 Equations Involving Absolute Value		
	2.3.3 Some Results For Absolute Value		
	2.3.4 Inequalities Involving Absolute Value		
	2.4 Linear Inequalities		
	2.5 Quadratic Functions		
	2.5.1 Quadratic Formula		
	2.5.2 Quadratic Inequalities		
2. Basic Algebra	2.7 Rational Functions		
	2.7.1 Rational Inequalities		
	2.7.2 Partial Fractions		
	2.8 Exponents and Radicals		
	2.8.1 Exponents		
	2.8.2 Radicals		
	2.8.3 Exponential Function		
	2.9 Logarithm		
	2.9.1 Properties of Logarithm		
	2.10 Application of Algebra in Real Life		



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	3.1 Introduction			
	3.2 A recall of basic results			
	3.2.5 Co terminal angles			
	3.3 Radian Measure			
	3.3.1 Relationship between Degree and Radian Measures			
	3.4 Trigonometric functions and their properties			
	3.4.1 Trigonometric Functions of any angle in terms of			
	Cartesian coordinates			
3. Trignometry	3.4.2 Trigonometric Functions of real numbers			
	3.4.3 Allied Angles			
	3.4.4 Some Characteristics of Trigonometric Functions			
	3.5 Trigonometric Identities			
	3.5.1 Sum and difference identities or compound angles			
	formulas			
	3.5.2 Multiple angle identities and submultiple angle			
	identities			
	3.5.3 Product to Sum and Sum to Product Identities			
	4.1 Introduction			
	4.2 Fundamental principles of counting			
	4.3 Factorials			
	4.4 Permutations (Theorem 4.1-4.3 without proof)			
4. Combinatorics	4.4.1 Permutations of distinct objects			
and Mathematical	4.4.2 Properties of Permutations. (without proof)			
Induction	4.4.3 Objects always together (String method)			
induction	4.4.4 No two things are together (Gap method)			
	4.4.5 Permutations of not all distinct objects			
	4.5 Combinations			
	4.5.1 Properties of Combinations (without proof)			
	4.6 Mathematical induction			

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	5.1 Introduction (Theorem 5.2, 5.3 without proof)			
	5.4 Finite Sequences			
	5.4.1 Arithmetic and Geometric Progressions			
5. Binomial	5.5 Finite Series			
Theorem,	5.5.2 Telescopic Summation for Finite Series			
Sequences and	5.6 Infinite Sequences and Series			
Series	5.6.1 Fibonacci Sequence			
	5.6.2 Infinite Geometric Series			
	5.6.4 Telescopic Summation for Infinite Series			
	5.6.5 Binomial Series			
	6.1 Introduction			
	6.2 Locus of a point			
	6.3 Straight Lines			
	6.3.1 The relationship between the angle of inclination			
	and slope			
	6.3.2 Intercepts of a Line			
	6.3.3 Different Forms of an equation of a straight line			
	6.3.4 General form to other forms			
	6.4 Angle between two straight lines			
	6.4.1 Condition for Parallel Lines			
6. Two Dimensional	6.4.2 Condition for perpendicular Lines			
Analytical	6.4.3 Position of a point with respect to a straight line			
Geometry	6.4.4 Distance Formulas			
	6.4.5 Family of lines			
	6.4.6 One parameter families			
	6.4.7 Two parameters families			
	6.5 Pair of Straight Lines			
	6.5.1 Pair of Lines Passing through the Origin			
	6.5.2 Angle between Pair of Straight Lines			
	6.5.3 Equation of the bisectors of the angle between the			
	lines			
	6.5.4 General form of Pair of Straight Lines			
	(*All examples and exercise problems for the content			
	mentioned above)			

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STANDARD: 11 SUBJECT: PHYSICS

UNIT	CONTENT	
1. Nature of Physical	1.1	Science - Introduction
world and Measurement	1.1.1	The Scientific Method
Measurement	1.2	Physics - Introduction
	1.2.1	Branches of physics
	1.2.2	Scope and Excitement of Physics
	1.3	Physics in Relation to technology and society
	1.5.1	(ii) Measurement of Large distance
	1.5.3	Measurement of Time intervals
	1.6	Theory of errors
	1.6.1	Accuracy and precision
	1.6.2	Errors in measurement
	1.6.3	Error Analysis
	1.6.4	Propagation of errors
	1.7	Significant Figures
	1.7.1	Definition and rules of significant figures
	1.7.2	Rounding off
	1.7.3	Arithmetical operations with significant figures
	1.8	Dimensional analysis
	1.8.1	Dimension of Physical Quantities
	1.8.2	Dimensional quantities, Dimensionless quantities, Principle of homogeneity
	1.8.3	Application and limitations of the method of Dimensional analysis
2. Kinematics	2.1	Introduction
	2.2	concept of Rest and Motion
	2.3.3	Addition of vectors
	2.3.4	Subtraction of vectors
	2.4	Components of a vector
	2.4.1	Vector addition using components
	2.5	Multiplication of vector by a scalar
	2.5.1	Scalar product of two vectors
	2.5.2	The vector product of two vector



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2.5.3	Properties of the components of vector
2.10	Motion along one dimension
2.10.1	Average velocity
2.10.2	Relative velocity in one and two dimensional motion
2.10.3	Equations of uniformly accelerated motion by calculus method
2.11	Projectile Motion
2.11.1	Introduction
2.11.2	Projectile in horizontal projection
2.11.3	Projectile under an angular projection
2.11.4	Introduction to Degrees and radians
2.11.5	Angular diplacement
2.11.6	Cicular motion
3.1	Introduction
3.2	Newton's laws
3.2.1	Newton's First Law
3.2.2	Newton's Second Law
3.2.3	Newton's Third Law
3.3	Applications of Newton's laws
3.3.1	Free body diagram
3.3.2	Particle moving in an inclined plane
3.3.3	Two bodies in contact on a Horizontal surface
3.3.4	Motion of connected bodies
3.3.5	Concurrent Forces and Lami's Theorem
3.6	Friction
3.6.1	Introduction
3.6.2	Static friction
3.6.3	Kinetic friction
3.6.4	To move an object- push or pull? Which is easier?
3.6.5	Angle of Friction
3.6.6	Angle of repose
3.6.7	Application of angle of repose
3.6.8	Rolling Friction
3.7	Dynamics of circular motion
3.7.2	Vehicle on a leveled circular road
3.7.3	Banking of tracks
	2.10 2.10.1 2.10.2 2.10.3 2.11 2.11.1 2.11.2 2.11.3 2.11.4 2.11.5 2.11.6 3.1 3.2 3.2.1 3.2.2 3.3.3 3.3.1 3.3.2 3.3.3 3.3.1 3.3.2 3.3.3 3.3.1 3.3.2 3.3.3 3.3.1 3.3.2 3.3.3 3.3.1 3.3.2 3.3.3 3.3.1 3.3.2 3.3.3 3.3.1 3.3.2 3.3.3 3.3.1 3.3.2 3.3.3 3.3.1 3.3.2 3.3.3 3.3.1 3.3.2 3.3.3 3.3.1 3.3.2 3.3.3 3.3.3 3.3.3 3.3.1 3.3.2 3.3.3 3.3.3 3.3.3 3.3.4 3.6.2 3.6.3 3.6.4 3.6.5 3.6.6 3.6.6 3.6.7 3.6.8 3.7 3.7.2





4. Work, energy and	4.1	Introduction
power	4.1.2	Workdone by a constant force
	4.2	Energy
	4.2.1	Kinetic Energy
	4.2.2	Work- Kinetic Energy
	4.2.3	Relation between Momentum and Kinetic energy
	4.2.4	Potential Energy
	4.3	Power
	4.3.1	Definition of power
	4.3.2	Unit of power
	4.4	Collisions
	4.4.1	Types of collisions
	4.4.2	Elastic collisions in one dimension
	4.4.4	Loss of kinetic energy in perfect inelastic collision
5. Motion of system of particles and rigid bodies	5.1	Introduction
	5.1.1	Centre of mass
	5.1.2	Center of Mass of a Rigid Body
	5.1.3	Center of Mass for Distributed point masses
	5.1.4	Center of Mass of Two point masses
	5.1.5	Center of mass for uniform distribution of mass
	5.2	Torque and Angular Momentum
	5.2.1	Definition of Torque
	5.2.2	Torque about an axis
	5.2.3	Torque and Angular Acceleration
	5.2.4	Angular Momentum
	5.2.5	Angular Momentum and Angular Velocity
	5.2.6	Torque and angular Momentum
	5.3.2	Couple
	5.3.3	Principle of moments
	5.3.4	Center of Gravity
	5.3.5	Bending of cyclist in curves
	5.4	Moment of inertia





	5.5	Rotational Dynamics
	5.5.1	Effect of Torque on Rigid Bodies
	5.5.3	Work done by Torque
	5.5.4	Kinetic Energy in Rotation
	5.5.5	Power delivered by Torque
	5.5.6	Comparison of translational and rotational quantities
	5.6.3	Kinetic energy in pure rolling
	5.6.4	Rolling on Inclined plane
6. Gravitation	6.1	Introduction
	6.2.2	Superposition principle for gravitational field
	6.2.3	Gravitational potential energy
	6.2.4	Gravitational potential energy near the surface of the earth
	6.2.5	Gravitational potential v(r)
	6.3	Acceleration due to gravity of the earth
	6.3.1	Variation of g with altitude,
		depth and latitude
	6.4	Escape speed and orbital speed
	6.4.1	Satellites, orbital speed and time period
	6.4.2	Energy of an orbiting satellite
	6.4.3	Geo- stationary and polar satellite
	6.4.4	Weightlessness weight of an object
	6.5	Elementary ideas of astronomy

PRACTICAL

STANDA	RD: 11 SUBJECT: PHYSICS
Sl.No	Topic
1	Moment of inertia of a solid sphere of known mass using vernier callipers.
2	Spring constants of a spring
3	Acceleration due to gravity using simple pendulum.

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STANDARD: 11 SUBJECT : CHEMISTRY

UNIT		CONTENT
1. Basic Concepts	1.4	Mole Concept
of Chemistry and Chemical	1.4.1	Avogadro Number
Calculations	1.4.2	Molar Mass
	1.4.3	Molar volume
	1.5	Gram Equivalent Concept
	1.5.1	Equivalent Mass of Acids, Bases,Salts, Oxidising Agents and Reducing Agents
	1.6	Empirical Formula and Molecular Formula
	1.6.1	Determination of Empirical Formula from Elemental Analysis Data
	1.6.2	Calculation of Molecular formula from Empirical Formula
	1.7	Stoichiometry
	1.7.1	Stoichiometric Calculations
		Calculations based on Stoichiometry
	1.7.2	Limiting Reagents
	1.8	Redox Reactions
	1.8.1	Oxidation Number
		Rules to calculate Oxidation Number
		Calculation of oxidation number using the above rules
		Redox reactions in terms of Oxidation Number
2. Quantum	2.1	Introduction to atom model
Mechanical Model of Atom	2.1.1	Bohr atom model
of Atom	2.1.2	Limitations of Bohr's atom model
	2.2	Wave particle duality of Matter
	2.2.1	Quantisation of angular momentum and de-Broglie Concept
	2.2.2	Davison and Germer Experiment
	2.3	Heisenberg's Uncertainty Principle



	2.5	Quantum numbers
		Principal quantum number (n)
		Azimuthal quantum number (I) or
		subsidiary quantum number
		Magnetic quantum number (m)
		Spin quantum number (s)
	2.5.2	Energies of orbitals
	2.6	Filling of orbitals
	2.6.1	Aufbau principle
	2.6.2	Pauli Exclusion Principle
	2.6.3	Hund's rule of maximum multiplicity
	2.6.4	Electronic Configuration of atoms
	2.6.5	Stability of half filled and completely filled orbitals
		Symmetrical distribution of electron
		Exchange energy
3. Periodic	3.2.1	Modern Periodic Table
Classification of Elements	3.3	Nomenclature of Elements with Atomic Number Greater than 100
	3.4	Grouping of Elements based on Electronic Configurations
	3.4.1	Variation of Electronic Configuration along the periods
	3.4.2	Variation of Electronic Configuration in the Groups
	3.5	Periodic Trends in Properties
	3.5.1	Atomic radius
	3.5.2	Ionic radius
	3.5.3	lonisation energy
	3.5.4	Electron Affinity
	3.5.5	Electro negativity
	3.6	Periodic trends in chemical properties
	3.6.1	Anomalous properties of second period elements
		elellielits
		Diagonal Relationship





6. Gaseous State	6.1	Introduction
	6.2	The Gas Laws
	6.2.1	Boyle's law (Pressure - volume relationship)
	6.2.2	Charle's law (volume - temperature relationship)
	6.2.3	Gay - Lussac's law (pressure - temperature relationship)
	6.2.4	Avogadro's Hypothesis
	6.3	Ideal gas equation
	6.4	Mixture of gases - Dalton's law of partial pressure
	6.4.1	Graham's law of diffusion
7. Thermodynamics	7.1	Introduction
	7.2	System and Surroundings
	7.2.1	Types of System
	7.2.2	Properties of the System
	7.2.3	Thermodynamic Processes
	7.3	Zeroth law of Thermodynamics
	7.4	First Law of Thermodynamics
	7.4.1	Mathematical Statement of the First law
	7.5	Enthalpy
	7.5.1	Relation between enthalpy 'H' and Internal energy 'U'
	7.5.2	Enthalpy changes for different types of reactions and phase transitions
	7.6	Thermochemical equations (Up to heat of Combustion)
	7.8	Hess's law of constant heat summation
	7.9	Lattice energy
	7.10	Second law of Thermodynamics
	7.10.1	Spontaneity and Randomness
	7.10.1	Standard Entropy Change
	7.10.1	Standard Entropy of formation
	7.10.1	Entropy change accompanying change of phase
	7.11	Gibbs Free Energy
	7.11.1	Criteria for spontaneity of a process
	7 1 2	Third law of Thermodynamics



11. Fundamentals	11.1	Introduction
of Organic Chemistry		Characters of organic compounds
Chemistry	11.2	Classification of organic compounds
	11.2.1	Classification based on structure
	11.2.2	Classification based on Functional groups
	11.3	Nomenclature of organic compounds
	11.3.1	IUPAC Rules for Nomenclature of organic compounds (except Table 11.6 Rules for naming of alicyclic compounds)
	11.5	ISOMERISM in organic compounds
	11.5.1	Constitutional Isomerism
	11.5.2	Sterio Isomerism
	11.5.3	Geometrical Isomerism
	11.5.4	Optical Isomerism
12. Basic Concepts	12.1	Introduction
of Organic Reactions	12.1.1	Fundamental concepts or Organic reaction mechanism
	12.1.2	Fission of a covalent bond
	12.1.3	Nucleophiles and Electrophiles
	12.1.5	Electron displacement effects in covalent bonds

PRACTICAL

STANDARD:	11	SUBJECT : CHEMISTRY
SI.No	Topic	
	Salt Analysis	
1	Lead Nitrate	
2	Copper Sulphate	
3	Aluminium Nitrate	
4	Ferric Chloride	

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STANDARD: 11 SUBJECT: BOTANY (THEORY)

CHAPTER		CONTENT
1. Living world	1.2.6	Bacteriophage
	1.2. 7	Multiplication or Lifecycle of Phages
	1. 3	Classification of Living world
	1.3.3	Five kingdom of classification
	1.4. 4	Gram staining procedure
	1.4. 5	Life processes in Bacteria
	1.4. 6	Reproduction in Bacteria
	1.4.8	Archaebacteria
	1.4.9	Cyanobacteria (Blue Green Algae)
	1.4.10	Mycoplasma
	1.4.11	Actinomycetes
	1.5.2	General characteristic features of fungi
	1.5.4	Classification of fungi
	1.5.5	Kingdom: Myceteae (Fungi)
	1.5.7	Agaricus
	1.5.8	Mycorrhizae
	1.5.9	Lichen
2. Plant Kingdom	2. 2	Lifecycle patterns in plants
	2.3.1	General characteristic features of algae
	2.3.2	Classification of algae
	2.3.4	Chara
	2.4.1	General characteristic features of bryophytes
	2.4.2	Classification of Bryophytes
	2.4. 4	Marchantia
	2.5.1	General characteristic features of
		Pteridophytes
	2.5. 2	Classification of Pteridophytes
	2.5. 4	Selaginella
	2.5. 5	Types of Stele
	2.6.1	General characteristic features of Gymnosperm
	2.6. 2	Classification of Gymnosperm
	2.6.3	Comparison of Gymnosperm with Angiosperm
	2.6. 5	Cycas





3. Vegetative	3. 5	Root system
Morphology	3.5.1	Types of Root system
	3.5.2	Functions of root
	3.5.3	Modification of roots - Tap root Modification
	3. 6	Shoot system
	3.6.3	Modification of stem
	3.7	Leaf
	3.7.3	Phyllotaxy
	3.7. 5	Leaf types
	3.7. 6	Leaf modification
	3.7. 7	Leaf duration
4. Reproductive	4. 1	Inflorescence
Morphology	4.1.1	Types of inflorescence
	4.1.2	Based on branching pattern and other character
	4. 2	Flower
	4.2.1	Whorls of flower
	4.2.2	Flower sex
	4.2.3	Plant sex
	4. 4	Androecium
	4.4.1	Fusion of stamens
	4. 5	Gynoecium
	4.5.1	Number of carpels
	4.5.5	Ovary position
	4. 6	Construction of floral diagram and Formula
5. Taxonomy and	5.1	Taxonomy and systematics
Systematic Botany	5.2	Taxonomic Hierarchy
	5.3	Concept of species - Morphological, Biological and Phylogenetic
	5.4	International Code of Botanical Nomenclature (ICBN)
	5.5	Taxonomic Aids
	5.10	Types of Classification
	5.10.1	Artificial system of classification
	5.10.2	Natural system of classification
	5.10.3	Phylogenetic system of classification
	5.10.4	Angiosperm phylogeny group classification(APG)
	5.11	Modern Trends in Taxonomy
	5.11.1	Chemotaxonomy
	5.11.2	Biosystematics

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	5.11.3	Karyotaxonomy
	5.11.4	Serotaxonomy
	5.11.5	Molecular taxonomy
	5.11.6	DNA Barcoding
	5.12	Cladistics
	5.13	Selected families of Angiosperms
	5.13.1	Fabaceae
	5.13.2	Apocynaceae
	5.13.3	Solanaceae
	5.13.4	Euphorbiaceae
	5.13.5	Musaceae
	5.13.6	Liliaceae
6. Cell: The Unit of	6. 2	Microscopy
Life	6.2.1	Bright field microscope
	6.2.2	Electron Microscope
	6. 3	Cell theory
	6.3.1	Exception to cell theory
	6.3.2	Protoplasm theory
	6.3.3	Cell sizes and shapes
	6. 5	Plant and Animal cell
	6.5.1	Ultrastructure of an Eukaryotic cell
	6.5.2	Protoplasm
	6.5.3	Cellwall
	6.5.4	Cell membrane
	6. 7	Nucleus
	6.7.1	Chromosome
	6. 8	Flagella
	6.8.1	Prokaryotic flagellum
	6.8.2	Eukaryotic flagellum
	6.8.3	Cilia

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7. Cell Cycle	7. 2	Cell cycle
	7.2.1	Duration of cell cycle
	7.2.2	
	7.2.3	G1 phase
	7.2.4	G0 phase
	7.2.5	S phase
	7.2.6	G2 - The second gap phase
	7. 3	Cell division
	7.3.1	Amitosis (Direct Cell Division)
	7.3.2	Mitosis
	7.3.3	Closed and Open Mitosis
	7.3.4	Cytokinesis
	7.3. 6	Meiosis
8. Biomolecules	8. 3	Carbohydrates and Classification
	8.3.1	Monosaccharides
	8.3.2	Disaccharides
	8.3.3	Polysaccharides
	8.3.4	Starch
	8.3.5	Test for starch
	8.3.6	Cellulose
	8.3.7	Chitin
	8.3.8	Test for reducing sugar
	8. 5	Proteins
	8.5.1	Classification of Aminoacids
	8.5.2	Structure of protein
	8.5.3	Protein Denaturation
	8.5.4	Protein binding
	8.5.5	Test for proteins
	8. 6	Enzymes
	8.6.1	Properties of enzyme
	8.6.2	Lock and Key mechanism of enzyme
	8.6.3	Enzyme cofactors
	8.6.4	Classification of enzymes
	8.6.5	Uses of enzymes
	8. 7	Nucleic acids
	8.7.1	Formation of Dinucleotide and Polynucleotide
	8.7.2	Structure of DNA
	8.7.3	Features of DNA
	8.7.4	Ribonucleic Acid (RNA)
	8.7.5	Types of RNA





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STANDARD: 11 SUBJECT: E			
Sl.No	Topic		
	Preparation and Demonstration of Slides		
1	Mitotic cell division stages		
2	Anatomical structure - Dicot & Monocot (Root, Stem &Leaf)		
	Fresh or preserved specimens		
3	Phylloclade - Opuntia		
4	Special inflorescence - Cyathium		
	Model/ Photograph/ Pictures		
5	Types of Stele		
6	Types of Inflorescence		
	Taxonomy - Flower Dissection		
7	Fabaceae - Clitoria ternatea		
8	Apocynaceae - Catharanthus roseus		
9	Solanaceae - Datura metal		
	Bio molecules - Nutrient test		
10	Test for reducing sugar-Benedict test		
11	Starch - Iodine test		
12	Protein -Biuret test		
13	Lipid -Saponification test		

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STANDARD: XI SUBJECT: ZOOLOGY

UNIT	CONTENT		
	Introduction		
	1.1 Diversity in the living world		
	1.3 Taxonomy and systematics		
1. The Living World	1.4 Three domains of life		
	1.7 Concept of species		
	1.8 Tools for study of Taxonomy		
	Introduction		
	2.1 Basis of classification		
	2.1.1 Levels of organisation		
	2.1.2 Diploblastic and Triploblastic organisation		
	2.1.3 Patterns of symmetry		
	2.1.4 Coelom		
	2.1.5 Segmentation and Notochord		
	2.2 Classification of Kingdom – Animalia		
2. Kingdom	2.3 Non - Chordates		
Animalia	2.3.2 Phylum – Cnidaria		
	2.3.3 Phylum - Ctenophora		
	2.3.6 Phylum – Annelida		
	2.3.7 Phylum – Arthropoda		
	2.4 Phylum - Chordata - Characteristics		
	2.4.3 Subphylum – Vertebrata		
	2.4.4 Class – Cyclostomata		
	2.4.5 Class – Chondrichthyes		
	2.4.6 Class - Osteichthyes		
	Introduction		
3. Tissue Level of	3.1 Animal Tissues		
Organisation	3.2 Epithelial Tissues		
	3.3 Connective Tissues		
4. Organ and	Introduction		
Organ System of	4.1 Earthworm		
Animal	4.3 Frog		

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5. Digestion and Absorption	Introduction 5.1 Digestive System 5.1.1 Structure of the alimentary canal 5.1.2 Histology of the Gut 5.1.3 Digestive glands 5.2 Digestion of food and role of digestive enzymes 5.3 Absorption and assimilation of proteins, carbohydrates and fats 5.4 Egestion 5.7 Nutritional and digestive Disorders
6. Respiration	Introduction 6.1 Respiratory functions 6.3 Mechanism of breathing 6.3.1 Respiratory volumes and capacities 6.4 Exchange of gases 6.5 Transport of gases 6.5.1 Transport of oxygen 6.5.2 Transport of Carbon-dioxide 6.6 Regulation of Respiration 6.7 Problems in oxygen Transport 6.9 Effects of Smoking
7. Body fluids and circulation	Introduction 7.1 Body Fluids 7.1.1 Plasma 7.1.2 Formed elements 7.1.3 Blood groups 7.1.4 Coagulation of blood 7.1.5 Composition of lymph and its function 7.4 Human Circulatory System 7.4.1 Origin and conduction of heart beat 7.4.2 Cardiac cycle 7.4.3 Cardiac output 7.4.4 Electrocardiogram (ECG) 7.6 Regulation of Cardiac activity 7.7 Disorders of the circulatory system 7.8 Diagnosis and treatment
PRACTICALS	 Pleurobrachia Tapeworm Cockroach Pila Squamous epithelium Columnar epithelium Rib cage Ball and Socket joint

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STANDARD: 11 SUBJECT: BIO-BOTANY (THEORY)

CHAPTER	CONTENT	
1. Living world	1.2.6	Bacteriophage
	1.2. 7	Multiplication or Lifecycle of Phages
	1.3	Classification of Living world
	1.3.3	Five kingdom of classification
	1.4.4	Gram staining procedure
	1.4.5	Life processes in Bacteria
	1.4.6	Reproduction in Bacteria
	1.4.8.	Archaebacteria
	1.4.9.	Cyanobacteria (Blue Green Algae)
	1.4.10.	Mycoplasma or Mollicutes
	1.4.11.	Actinomycetes
	1.5.2	General characteristic features
	1.5.4	Classification of fungi
	1.5.6	Mycorrhizae
	1.5.7	Lichen
2. Plant Kingdom	2.2	Lifecycle patterns in plants
	2.3.1	General characteristic features of algae
	2.3.2	Classification of algae
	2.4.1	General characteristic features of bryophytes
	2.5.1	General characteristic features of
		Pteridophytes
	2.5.3	Types of Stele
	2.6.1	General characteristic features of Gymnosperm
	2.6.2	Comparison of Gymnosperm with Angiosperm
3. Vegetative	3. 5	Root system
Morphology	3.5.1	Types of Root system
	3.5.2	Functions of root
	3.5.3	Modification of roots - Tap root Modification



	3. 6	Shoot system
	3.6.3	Modification of stem
	3.7	Leaf
	3.7.3	Phyllotaxy
	3.7. 5	Leaf types
	3.7. 6	Leaf modification
	3.7. 7	Leaf duration
4. Reproductive	4. 1	Inflorescence
Morphology	4.1.1	Types of inflorescence
	4.1.2	Based on branching pattern and other character
	4. 2	Flower
	4.2.1	Whorls of flower
	4.2.2	Flower sex
	4.2.3	Plant sex
	4. 4	Androecium
	4.4.1	Fusion of stamens
	4. 5	Gynoecium
	4.5.1	Number of carpels
	4.5.5	Ovary position
	4. 6	Construction of floral diagram and Formula
5. Taxonomy and	5.1	Taxonomy and systematics
Systematic Botany	5.2	Taxonomic Hierarchy
	5.3	Concept of species - Morphological, Biological and Phylogenetic
	5.4	International Code of Botanical Nomenclature (ICBN)
	5.5	Taxonomic Aids
	5.10	Types of Classification
	5.10.1	Artificial system of classification
	5.10.2	Natural system of classification
	5.10.3	Phylogenetic system of classification





	5.10.4	Angiosperm phylogeny group classification(APG)
	5.11	Modern Trends in Taxonomy
	5.11.1	Chemotaxonomy
	5.11.2	Biosystematics
	5.11.3	Karyotaxonomy
	5.11.4	Serotaxonomy
	5.11.5	Molecular taxonomy
	5.11.6	DNA Barcoding
	5.12	Cladistics
	5.13	Selected families of Angiosperms
	5.13.1	Fabaceae
	5.13.2	Solanaceae
	5.13.3	Liliaceae
6. Cell: The Unit of Life	6. 2	Microscopy
	6.2.1	Bright field microscope
	6.2.2	Electron Microscope
	6. 3	Cell theory
	6.3.1	Exception to cell theory
	6.3.2	Protoplasm theory
	6.3.3	Cell sizes and shapes
	6. 5	Plant and Animal cell
	6.5.1	Ultrastructure of an Eukaryotic cell
	6.5.2	Protoplasm
	6.5.3	Cellwall
	6.5.4	Cell membrane
	6. 7	Nucleus
	6.7.1	Chromosome
	6. 8	Flagella
	6.8.1	Prokaryotic flagellum
	6.8.2	Eukaryotic flagellum
	683	Cilia



7. Cell Cycle	7. 2	Cell cycle
,	7.2.1	Duration of cell cycle
	7.2.2	
	7.2.3	•
		G _o phase
	7.2.5	·
	7.2.6	G ₂ - The second gap phase
	7. 3	_
	7.3.1	
	7.3.2	Mitosis
		Closed and Open Mitosis
	7.3.4	
	7.3. 6	Meiosis
8. Biomolecules	8. 3	Carbohydrates and Classification
	8.3.1	•
	8.3.2	
		Polysaccharides
	8.3.4	
	8.3.5	Test for starch
	8.3.6	Cellulose
	8.3.7	Chitin
	8.3.8	Test for reducing sugar
	8. 5	Proteins
	8.5.1	Classification of Aminoacids
	8.5.2	Structure of protein
	8.5.3	Protein Denaturation
	8.5.4	Protein binding
	8.5.5	Test for proteins
	8. 6	Enzymes
	8.6.1	Properties of enzyme
	8.6.2	Lock and Key mechanism of enzyme
	8.6.3	Enzyme cofactors
	8.6.4	Classification of enzymes
	8.6.5	Uses of enzymes
	8. 7	Nucleic acids
	8.7.1	Formation of Dinucleotide ad Polynucleotide
	8.7.2	Structure of DNA
	8.7.3	Features of DNA
	8.7.4	Ribonucleic acid (RNA)
	8.7.5	Types of RNA



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STAND	ARD: 11 S	SUBJECT: BIO-BOTANY
SI.No	Topic	
	Preparation and Demonstration of S	Slides
1	Mitotic cell division stages	
2	Anatomical structure -	
	Dicot& Monocot (Root, Stem &Leaf)	
Fresh or preserved specimens		
3	Phylloclade - Opuntia	
4	Special inflorescence - Cyathium	
Taxonomy - Flower Dissection		
5	Fabaceae - Clitoria ternatea	
6	Solanaceae - Datura metal	
Bio molecules – Nutrient test		
7	Test for reducing sugar-Benedict test	
8	Starch - Iodine test	



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STANDARD: XI SUBJECT: BIO-ZOOLOGY

UNIT	CONTENT				
	Introduction				
	1.1 Diversity in the living world				
	1.3 Taxonomy and systematics				
1. The Living World	1.4 Three domains of life				
	1.7 Concept of species				
	1.8 Tools for study of Taxonomy				
	Introduction				
	2.1 Basis of classification				
	2.1.1 Levels of organisation				
	2.1.2 Diploblastic and Triploblastic organisation				
	2.1.3 Patterns of symmetry				
	2.1.4 Coelom				
	2.1.5 Segmentation and Notochord				
	2.2 Classification of Kingdom - Animalia				
2. Kingdom	2.3 Non - Chordates				
Animalia	2.3.2 Phylum – Cnidaria				
	2.3.3 Phylum - Ctenophora				
	2.3.6 Phylum - Annelida				
	2.3.7 Phylum - Arthropoda				
	2.4 Phylum - Chordata - Characteristics				
	2.4.3 Subphylum – Vertebrata				
	2.4.4 Class – Cyclostomata				
	2.4.5 Class - Chondrichthyes				
	2.4.6 Class - Osteichthyes				
	3.1 Animal Tissues				
3. Tissue Level of	3.2 Epithelial Tissues				
Organisation	3.3 Connective Tissues				
	1				



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4. Organ and	Introduction				
Organ System	4.1 Earthworm				
of Animal	4.3 Frog				
	Introduction 5.1 Digestive System				
	5.1.1 Structure of the alimentary canal				
	5.1.2 Histology of the Gut				
	5.1.3 Digestive glands				
5. Digestion and Absorption	5.2 Digestion of food and role of digestive enzymes				
Absorption	5.3 Absorption and assimilation of proteins, carbohydrates and fats				
	5.4 Egestion				
	5.6 Nutritional and digestive Disorders				
	Introduction				
	6.1 Respiratory functions6.3 Mechanism of breathing6.3.1 Respiratory volumes and capacities				
	6.4 Exchange of gases6.5 Transport of gases6.5.1 Transport of oxygen				
6. Respiration	6.5.2 Transport of Carbon-dioxide				
	6.6 Regulation of Respiration 6.7 Problems in oxygen transport 6.9 Effects of Smoking				
	1. Pleurobrachia				
	2. Tapeworm				
	3. Cockroach				
	4. Pila				
PRACTICALS	5. Squamous epithelium				
	6. Columnar epithelium				
	7. Rib cage				
	8. Ball and Socket joint				

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CLASS: 11 SUBJECT: BIO CHEMISTRY

UNIT		CONTENT
1. Basic Concepts of	Introduction	
Biochemistry and Cell Biology	1.1.	The unit of biological organisation: The Cell
	1.2.	Two Major classes of cells:prokaryotic and eukaryotic
	1.3.	Shape and Structure of cell
	1.3.1.	Cell and solute levels
	1.4.	Subcellular organelles
	1.4.1.	Cell Membrane
	1.4.2.	Cell Wall
	1.4.3.	Nucleus
2. Biomolecules	Introdu	ction
	2.1.	Carbohydrates
	2.1.1.	Importance
	2.2.	Proteins
	2.2.1	Definition
	2.2.2	Classification
	2.2.3	Functional diversity of proteins
	2.3.	Lipids
	2.3.1	Definition
	l	Classification
	2.3.3	Function of lipids
	2.4.	Nucleic Acid
	2.4.1	Definition
	2.4.2	Structure of Nucleic acids
	2.4.3	Classification
	2.4.4	Functions of DNA and RNA
3. Proteins	Introdu	ction
	3.1.	Dietary Source of Proteins
	3.2.	Amino Acids
	3.2.1	Amino acids with Non polar side chains
	3.2.2	Amino acids with uncharged polar side chains
	3.2.3	Amino acids with basic side chains

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	3.2.4	Stereo isomerism in amino acids
	3.2.5	Acid -base properties of amino acids
	3.2.6	Reaction with Ninhydrin
	3.2.7	Essential amino acids
	3.4.	Properties of Proteins
	3.5.	Haemoglobin - An Example for Globular protein
	3.6.	Collagen - An Example for Fibrous protein
4. Enzymes	Introduc	ction
	4.1.	Nature and properties of Enzymes
	4.2.	Nomenclature and Classification of Enzymes
	4.3.	Coenzyme
	4.4.	Factors influencing Enzyme activity
	4.4.1	Effect of pH
	4.4.2	Effect of Temperature on enzyme activity
	4.4.3	Concentration of Substrate
	4.4.4	Concentration of Enzyme
	4.4.5	Activators
5. Carbohydrates	Introduc	ction
	5.1.	A Primary source of Energy
	5.3.	Structures of Glucose, Fructose & Galactose
	5.3.1	Glucose
	5.3.2	Fructose
	5.3.3	Galactose
	5.4.	Properties of Glucose, Fructose and Galactose (chemical properties)
	5.4.1	Glucose
	5.4.2	Fructose
	5.4.3	Galactose
	I	
	5.5.	Haworth's Projection
	5.5. 5.6.	Haworth's Projection Disaccharides
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	5.6.	Disaccharides
	5.6. 5.6.1	Disaccharides Maltose



CLASS	: 11 SUBJECT: BIO CHEMISTRY
SI.No	Topic
1.	Carbohydrate Glucose
2.	Starch
3.	Amino acids



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STANDARD: 11 SUBJECT: MICROBIOLOGY

UNIT	TOPICS
1. Introduction to	1.1 Groups of Microorganisms 1.2.2 Louis Pasteur
Microbiology	1.2.4 Robert Koch
	2.1 Historical Background
	2.2 Principles of Microscopy
2. Microscopy	2.2.1 Properties of light
	2.2.2 Lenses and its properties
	2.4 Dark field Microscope
	3.2 Purpose of staining
	3.3 Stains
	3.3.1 Classification of stains
	3.4 Principle of staining
	3.5 Preparation of materials for staining
	3.5.1 Preparation of smear
3. Stains and staining	3.5.2 Fixation
methods	3.5.3 Bacterial staining methods
	3.6 Simple staining method
	3.7 Differential staining
	3.7.1 Gram's staining method
	3.7.2 Procedure of Gram's staining
	3.7.3 Principle of Gram's staining
	3.8 Special staining-endospore staining



4. Sterilization	4.4 Sterilization by heat		
	4.4.1 Sterilization by Dry heat		
	4.4.2 Sterilization by moist heat		
	4.5 Radiation		
	4.6 Filtration		
5.Cultivation of Microorganisms	5.2 Bacteriological media and its types		
	5.2.1 Physical nature of agar medium		
	5.2.2 Chemical nature of medium		
	5.2.3 Special purpose medium		
	5.3 Pure culture		
	5.3.1 Methods employed in the isolation of		
	microorganisms		
	6.1 Microbial nutrition		
6.Microbial nutrition and growth	6.2 Nutrient requirement of Microorganisms		
	6.5 Microbial growth		
	6.6 Measurement of growth		
	7.2 Structure external to cell wall of Bacteria		
	7.2.1 Appendages		
7.Morphology of Bacteria	7.3 Cell envelope of Bacteria		
	7.3.1 Structure of prokaryotic cell wall		
	7.3.2 Structure of outer membrane		
	7.3.3 Structure of cytoplasmic membrane		
	Major Practical		
	8. Simple staining (16 - 18)		
Practical	10. MEDIA preparation - Nutrient agar (21,22)		
Practical	Spotters		
	11. Petri plate (22)		
	12. Inoculation loop (22)		

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STANDARD: 11

SUBJECT: GENERAL NURSING

UNIT		CONTENT
1. Nursing - Origin and its Development	1.1	Introduction
	1.2	Definition of Nursing
	1.3	Scope of Nursing in India
	1.4	Evolution of Nursing
2. Health Care Delivery	2.1	Introduction
system in India	2.2	Health Care Delivery System In India
	2.3	Primary Care
	2.4	Short Term Care and Long
		Term Care
3. Hospital and its	3.1	Introduction
Environment	3.4	Hospital Economy
	3.5	Admission Procedure
	3.6	Safety and Comfortable Environment
	3.7	Discharging the Patient
4. Communication Skill	4.1	Introduction
in Nursing	4.2	Concepts and Types of Communication: Concepts
	4.3	Importance of Communication
	4.4	Essential elements of communication process
	4.7	Interpersonal Relationship (IPR)
5. Health Assessment	5.1	Introduction
and Physical Examination	5.2	Definition
Examination	5.3	Assessment Techniques
	5.5	Procedure and Recording Of Temperature
	5.6	Pulse
	5.7	Respiration
	5.8	Blood Pressure

6. Infection Control	6.1	Introduction
	6.2	Immunity
	6.3	Microorganisms
	6.4	Terminologies
	6.5	Infection Process
	6.9	Central Sterile Service
		Department(CSSD)

PRACTICAL

STANDARD: 1	1 SUBJECT: GENERAL NURSING
SI.No	Topic
1	Health Care Delivery Systems in India
2	Health Assessment
3	Medical and Surgical Asepsis



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STANDARD: 11

SUBJECT: Nutrition and Dietetics

UNIT	CONTENT
1. Introduction To	1.2. Functions of food
Food	1.2. 1 Physiological functions of food
	1.2.2 Psychological Functions of food
	1.2.3 Social functions of Food
	1.7. Cooking
	1.7.1 Objectives of cooking
	1.7.2 a. Moist Heat Methods
	1.7.2 b. Dry heat methods.
	1.7.2 c. Combination of cooking methods.
	1.7.3 Other Methods of Cooking
2. Cereals And Pulses	2.3. Specific cereals and millets
	2.3.1. Rice
	2.3.2. Wheat
	2.3.3. Oats
	2.3.4. Barley
	2.3.5. Health benefits of millets
	2.5. Processing of cereals
	2.5.1. Milling
	2.5.2. Parboiling
	2.5.3. Malting of cereals
	2.6. Cereal cookery
	2.6.1. Gelatinisation
	2.6.2. Gluten formation
	2.6.3. Dextrinisation
	2.7. Fermented cereal products
	2.9. Health benefits of cereals
	2.10. Pulses
	2.10.1. Nutritive value of pulses
	2.10.2 Germination
	2.10.3 Toxic constituents in pulses
	2.10.7 Health benefits of pulses
3. Vegetables And	3.3 Nutritive value of vegetables)
Fruits	3.4 Purchase of vegetables and fruits
	3.5 Vegetable Cookery
	3.5.1. Methods to reduce loss of nutrients while cooking vegetables
	3.5.2. Role of vegetables in cookery
	3.6 Fruits
	3.6.1 Nutritive value of fruits

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3. Vegetables And	3.6.2 Classification of fruits
Fruits	3.7 Pigments in vegetables and fruits
	3.9 Browning in vegetables and fruits.
	3.9.1. Measures to prevent enzymatic browning.
4. Flesh Foods, Milk	4.1 Meat
And Milk Products	4.1.1 Classes of meat and related products
	4.1.2 Structure of meat
	4.1.5 Meat Cookery
	4.1.6 Changes that occur during cooking
	4.2.3 Composition and nutritive value
	4.2.4 Selection of poultry
	4.3.2 Composition and nutritive value of fish
	4.3.3 Selection of Fish
	4.4.2 The value of eggs in the diet
	4.4.5 Uses of egg in cookery
	4.5. Milk And Milk Products
	4.5.1 Nutritive value of milk
	4.5.2 Types of processed milk
	4.5.3 Pasteurisation of milk
5. Nuts, Oil Seeds	5.1 Nuts
And Sugar	5.1.1 Groundnuts
	5.1.2 Cashew nuts
	5.1.3 Coconut
	5.1.4 Almonds
	5.2. Oil seeds and their importance
	5.2.1 Mustard Seeds
	5.2.2. Corn oil
	5.2.3 Castor Seeds
	5.2.4 Sunflower Seeds
	5.2.5 Sesame Seeds
	5.2.6 Palm Oil Seeds
	5.2.7 Olive Oil Seeds
	5. 3. Fats and oils
	5.3. 1.Nutritional significance
	5.3.2 Refined oils
	5.3.3. Hydrogenation – vanaspathi and margarine
	5.4. Rancidity



6. Spices, Food Additives And Food Adulteration.	6.1 Spices
	6.1.3 List of Indian Spices and its uses
	6.2 Food additives
	6.2.1 Need for food additives
	6.2.2 Classification of food additives
	6.2.3 Harmful effects of food additives
	6.3.3 Methods to detect Food Adulteration
	6.4. Food laws in our country
7. Recent Concepts In	7.2. Nutraceuticals
Nutrition	7.2.1 Dietary supplements
	7.2.2. Functional foods
	7.6. Functional components of Fruits and vegetables
	7.6.1. Red fruits and vegetables
	7.6.2. Orange fruits and vegetables
	7.6.3. Yellow fruits and vegetables
	7.6.4. Green fruits and vegetables
	7.6.5. Greenish / White fruits and vegetables
	7.6.6. Blue/ Indigo/ Violet fruits and vegetables
	7.7. Organic foods
	7.7.1 Guidelines in Raising Organic Farms
	7.7.2 Tips to grow kitchen garden at home
8. Introduction To	8.1 The Origin of Nutrition
Nutrition Science	8.2 Importance of Nutrients
	8.3 Importance of Nutrition

PRACTICAL

STANDARD: 1	1 SUBJECT: NUTRITION AND DIETETICS
SI.No	Topic
1	Measuring Techniques
2	Cooking Methods
3	Cereal Cookery
4	Pulse Cookery

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STANDARD: 11 SUBJECT: HOME SCIENCE

UNIT	CONTE	NT
1. Concepts and Scope	1.1	Introduction
of Home Science	1.2	Evolution of the Discipline of Home Science
	1.2.1	Diploma courses in Home Science
	1.3	Components of Home Science
	1.3.1	Foods and Nutrition
	1.3.2	Family resource Management
	1.3.3	Textile and Clothing
	1.3.4	Human Development
	1.3.5	Communication and Extension
	1.4	Relevance of Home Science in improving quality of life
	1.5	Educational and Vocational scope of Home Science
	1.5.1	Clinical Dietician
	1.5.2	Public Health Nutritionists
	1.5.3	Academicians and Research Scholars
	1.5.4	Consultant/Private practice
	1.5.5	Business and Industry
	1.5.6	National and International Food organizations
2. Human Development and its Challenges	Entire U	Init
3. Food Science	3.1	Introduction
	3.2	Functions of food
	3.2.1	Physiological Functions of Food
	3.2.2	Psychological Functions of Food
	3.2.3	Social Functions of Food
	3.3	Basic four food groups and its significance
	3.3.1	Types and Importance of Millets
	3.4	Food pyramid
	3.6	Steps in minimizing loss of nutrients during cooking
	3.7	Fortification and Enrichment
	3.8	Kitchen equipment
	3.9	Basic rules of Kitchen Safety



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4. Food Preservation	4.1	Introduction
Methods	4.2	Preservation methods
	4.2.1	Preservation of foods with low
		temperature
	4.2.1.1	Chill Storage
	4.2.1.2	Freezing
	4.2.2	Preservation by high temperature
	4.2.2.1	Pasteurization
	4.2.2.2	Blanching
	4.2.2.3	Canning
	4.2.3	Preservation by Dehydration
	4.2.3.1	Drying
	4.2.3.2	Types of Driers
	4.2.4	Smoking of foods
	4.2.5	Preservation by chemical preservatives
	4.2.6	Preservation by high osmotic pressure
	4.2.6.1	High concentration of sugar
	4.2.6.2	High concentration of salt
	4.2.7	Food irradiation
	4.2.8	Vacuum packing
5. Nutrition	5.1	Introduction
	5.1.1	Introduction to Nutrition science
	5.3	Micro nutrients
	5.3.1	Minerals
		Calcium, Phosphorus, Iron
		Iodine,Zinc
	5.3.2	Vitamins
	5.3.2.1	Fat soluble vitamins A,D,E and K
	5.3.2.2	Water soluble vitamins, Thiamine, Riboflavin, Niacin, Pyridoxine, Folic acid, Cyanocobalamin, Vitamin C
	5.4	Water
	5.5	Malnutrition



PRACTICAL

STANE	OARD: 11 SUBJECT: HOME SCIENCE
Sl.No	Topic
1.	a) To use sugar as a preservative in preserving food (Banana Jam).
	b) To use salt and oil as preservative in preserving food (Pickles)
2.	Plan a day's menu for a 4 year old boy belonging to low income group suffering from Marasmic / Kwashiorkor. Prepare and serve one main item for his lunch. Calculate protein and energy for the prepared item.





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CLASS: 11 SUBJECT: COMPUTER SCIENCE

UNIT		CONTENT
Unit-I	1.1.	Introduction to Computers
1. Introduction	1.2.	Generation of Computers
to Computers	1.4	Data and information
2. Number System	2.1.	Introduction
	2.2.	Data Representation
	2.3.	Different Types of Number System
	2.4.	Number System Conversion
	2.5	Binary Representation for signed Numbers
3. Computer Organisation	3.1.	Introduction to Computer Organization
	3.2	Basics of Microprocessor
	3.4	Types of Microprocessor
	3.5	Memory Devices
4. Theoretical Concepts	4.1	Introduction to Software
of Operating System	4.2	Introduction to Operating System
	4.3	Types of Operating System
	4.5	Prominent Operating System
5. Working with Windows	5.1 Intro	oduction to Operating System
Operating System	5.2 Introduction to Windows Operating System	
		dows Desktop
		Window
		lication Window
		ument Window
		ments of Window
		anaging Files and Folders
UNIT - II	6.1 Algorithms	
6 Specification and	6.2 Algorithmic Problems	
Abstraction	6.3 Building Blocks of Algorithms	
	6.4 Algorithm Design Techniques	
	6.5 Specification	
	6.6 Abs	traction

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7. Composition and	7.1 Notations for Algorithms
Decomposition	7.2 Composition
	7.3Decomposition
8. Iteration and	8.1 Invariants
Recursion	8.2 Loop Invariants
Unit - III	9.1 Introduction
9 Introduction to C++	9.2 Character Set
	9.3 Lexical Unit
	9.4 Input/Output Operators
	9.5 Sample Program in C++
	9.6 Execution of C++
	9.8 Types of errors
	9.10 Introduction to datatypes, variables and Expressions
	9.11 Concept of Datatype
	9.12 C++ data types
	9.13 Variables

PRACTICAL

CLASS: 11	SUBJECT: COMPUTER SCIENCE
SI.No	Topic
1	Gross Salary
2	Percentage

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CLASS: 11 SUBJECT: COMMERCE

UNIT	CONTENT
1. Historical Background of Commerce in the Sub-Continent	1.01 Introduction
	1.02 Barter System
	1.03 Hindrances of Commerce
	1.04 Elimination of Hindrances of Commerce
	2.01 Introduction
2.Objectives of	2.02 Types of Economic Activities
Business	2.03 Characteristics of Business
	2.04 Objectives of Business
3.Classification	3.01 Industry
of Business	3.02 Commerce
Activities	3.03 Trade
	4.01 Introduction
4.Sole	4.02 Definition of Sole Trader
Proprietorship	4.03 Characteristics
	4.04 Advantages and Disadvantages
	5.01 Introduction to HUF
	5.02 Meaning and Definition of Partnership
5.Hindu	5.03 Partnership Deed and its Contents
Undivided	5.04 Rights and Duties of Partners
Family and	5.05 Types of Partners
Partnership	5.06 Procedure for Registration
	5.07 Drawbacks of Non-Registration of Partnership
	5.08 Dissolution of Partnership
6.Joint Stock Company	6.01 Meaning & Definition of a Company
	6.02 Types of Companies
	6.03 Memorandum of Association
	6.04 Articles of Association
	6.05 Prospectus



7.Cooperative Organization	7.01	Meaning and Definition
	7.02	Principles of Cooperation
	7.03	Features of Cooperatives
Organization	7.04	Advantages and Disadvantages
	7.05	Types of Cooperatives
	9.01	Meaning and Features of Departmental Undertaking
	9.02	Advantages and Disadvantages
9.Government	9.03	Meaning and Features of Public Corporation
Organizations	9.04	Advantages and Disadvantages
	9.05	Meaning and Features of Government Company
	9.06	Advantages and Disadvantages
	10.04	Bank Definition
10.Reserve Bank	10.05	Definition of Central Bank
of India	10.06	Origin of RBI
or mana	10.07	Organizational Structure of RBI
	10.08	Functions of RBI
	12.01	Primary Functions
12 Functions of	12.02	Secondary Functions
12.Functions of Commercial	12.03	Diversified Banking Functions
Bank	12.04	Electronic Banking Functions
	12.05	Functions of All Commercial Banks in Totality

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	13.01	Meaning of Warehouse and Warehousing
	13.02	Difference between Warehouse and Warehousing
12.14	13.03	Types of Warehouses
13.Warehousing	13.04	Functions of Warehouse
	13.05	Advantages and DrawBacks of Warehouse
	13.06	Warehousing Documents
	13.07	Warehousing in India
	15.01	Meaning and Definition of Insurance
15.Insurance	15.02	Principles of Insurance
	15.03	Types of Insurance
	15.04	Insurance Regulatory Development Authority of India (IRDAI)



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STANDARD: 11 SUBJECT: ACCOUNTANCY

UNIT	CONTENT
1. Introduction to	1.1 Introduction to accounting
Accounting	1.2 Evolution of accounting
	1.3 Meaning and definition of accounting
	1.4 Accounting cycle
	1.5 Objectives of accounting
	1.6 Functions of accounting
	1.7 Importance of accounting
	1.8 Basic accounting terminologies
	1.9 Branches of accounting
	1.10 Bases of accounting
	1.11 Users of accounting information
	1.12 Role of an accountant
2. Conceptual Frame	2.1 Book keeping - an introduction
Work of Accounting	2.1.1 Meaning of Book Keeping
	2.1.2 Definition of Book Keeping
	2.1.3 Features of Book Keeping
	2.1.4 Objectives of Book Keeping
	2.1.5 Advantages of Book Keeping
	2.1.6 Limitation of Book Keeping
	2.2 Book keeping vs Accounting
	2.3 Relationship among Book-keeping, Accounting & Accountancy
	2.4 Accounting Principles
3. Books of Prime Entry	3.1. Introduction
	3.2 Source documents
	3.3 Double entry system
	3.3.1 Definition
	3.3.2 Principles of double entry system
	3.3.3 Advantages of double entry system
	3.4 Transaction -(i) Cash transaction
	(ii) Bank transaction
	3.6 Approaches of recording transactions



	3.6.2 Traditional Approach (only)
	3.6.2.1 Classification of accounts
	3.7 Accounting rules
	3.8 Journal entries
	3.8.1 Meaning
	3.8.2 Format of journal
	3.8.3 Steps in journalising
	3.8.4 Different types of journal entries
	3.8.5 Application of rules of double entry system
	3.8.6 Analysis of transactions
4. Ledger	4.1 Introduction
	4.2 Utilities of ledger
	4.3 Format of ledger account
	4.4 Distinction between journal and ledger
	4.5 Procedure for posting
	4.5.1 Posting of opening Journal Entry
	4.5.2 Posting of Compound Journal Entry
	4.6 Balancing of ledger accounts
	4.6.1 Procedure for balancing an account
5. Trial Balance	5.1 Introduction
	5.2 Need for preparing trial balance
	5.3 Definition of trial balance
	5.5 Objectives of preparing trial balance
	5.7 Methods of preparing Trial Balance
	5.7.1 Balance Method
	5.8 Suspense Account
6. Subsidiary Book-1	6.1 Introduction
	6.2 Meaning of subsidiary books
	6.3 Types of subsidiary books
	6.5 Purchases book
	6.5.1 Invoice
	6.5.2 Trade discount
	6.5.3 Posting from purchase book
	6.6 Purchases returns book
	6.6.1 Posting from the purchases returns book



	1	
	6.6.2	Debit - note- the source document for relation outward
	6.7	Sales book
	6.7.1	Posting from sales book
	6.8	Sales return book
	6.8.1	Posting from the sales return book
	6.8.2	Credit - note - the source document for relation inward
7. Subsidiary Book -II	7.1	Introduction
(Cash Book)	7.2	Meaning of cash book
	7.3	Cash book- A subsidiary book and principle book of accounts
	7.4	Importance of cash book
	7.5	Types of cash book
	7.6	Single column cash book
	7.6.1	Balancing of single column cash book
	7.6.2	Posting from single column cash book
	7.7	Cash discount and trade discount
	7.7.1	Differences between cash discount and trade discount
	7.9	Three column Cash book
		(Cash Book with Cash discount and Bank Column)
	7.9.2	Contra Entry







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CLASS: 11 SUBJECT: ECONOMICS

UNIT		CONTENT
1 Introduction to Micro	1.1.	Introduction
Economics	1.2.	Economics - Meaning
	1.3.	Economics : Its nature
	1.3.1.	Wealth Definition : Adam Smith
	1.3.2.	Welfare Definition : Alfred Marshall
	1.3.3.	Scarcity Definition : Lionel Robbins
	1.3.4.	Growth Definition : Samuelson
	1.4.	Scope of Economics
	1.5.	Basic concepts in Economics
	1.5.1.	Goods and services
	1.5.2.	Utility
	1.5.3.	Price
	1.5.4.	Market
	1.5.5.	Cost
	1.5.6.	Revenue
	1.5.7.	Equilibrium
	1.5.8.	Income
	1.7.1.	Consumption
	1.7.2.	Production
	1.7.3.	Exchange
	1.7.4.	Distribution
	1.8.	Economics : Its types
	1.8.1.	Micro Economics
	1.8.2.	Macro Economics
	1.8.3.	International Economics
	1.8.4.	Public Economics
	1.8.5.	Developmental Economics
	1.8.6.	Health Economics
	1.8.7.	Environmental Economics

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2. Consumption	2.1.	Introduction
Analysis	2.2.	Human Wants
	2.3.	Characteristics of Human wants
	2.4.	Classification of Goods
	2.5.	Cardinal Utility Analysis
	2.5.1.	The Law of Diminishing Marginal Utility (DMU)
	2.6.	The Law of Equi-Marginal Utility
	2.7.	Consumer's Surplus
	2.8.	Law of Demand
	2.8.1.	Characteristics of Demand
	2.8.2.	Demand function
	2.8.3.	Law of demand
	2.8.4.	Determinants of demand
	2.8.8.	Movement along demand curve
	2.8.9.	Shift in the demand curve
	2.9.	Elasticity of demand
	2.9.1.	Types of Elasticity of demand
	2.9.2.	Levels or degrees of price Elasticity of demand
	2.10.	Ordinal Analysis (or) Ordinal utility Approach (or) Hicks and Allen Approach (or) Indifference curve analysis
	2.11.	An Indifference curve
	2.12.	An Indifference map
	2.13.	Diminishing Marginal Rate of Substitution
	2.14.	Properties of the Indifference curves
	2.15.	Priceline or budget line
	2.16.	Consumer Equilibrium
	2.17.	Conclusion
3. Production Analysis	3.1.	Introduction
	3.2.1.	Land
	3.2.2.	Labour
	3.2.3.	Capital
	3.2.4.	Organization
	3.3.	Production function



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	3.4.	Law of Variable Proportions
	3.5.	Law of Returns to Scale
	3.6.	Economies of Scale
	3.8.	Iso-quants
	3.8.1.	Definition of Iso-quant
	3.8.2.	Iso-quant curve
	3.8.3.	Iso-quant map
	3.8.4.	Properties of Iso-quant curve
	3.12.1.	Supply function
	3.12.2.	Supply curve
	3.12.3.	Factors determining supply
	3.13.	Conclusion
4. Cost and Revenue	4.1.	Introduction
Analysis	4.3	Cost Concepts
	4.3.1.	Money Cost
	4.3.2.	Real Cost
	4.3.3.	Explicit Cost
	4.3.4.	Implicit Cost
	4.3.5.	Economic Cost
	4.3.6.	Social Cost
	4.3.7.	Opportunity Cost
	4.3.8.	Sunk Cost
	4.3.9.	Floating Cost
	4.3.10.	Prime Cost
	4.3.11.	Fixed Cost
	4.3.12.	Variable Cost
	4.4.	Short run Cost Curves
	4.4.1.	Total Fixed Cost (TFC)
	4.4.2.	Total Variable Cost (TVC)
	4.4.3.	Total Cost Curves
	4.4.4.	Average Fixed Cost (AFC)
	4.4.5.	Average Variable Cost (AVC)
	4.4.6.	Average Total Cost (ATC) or Average Cost (AC)
	4.4.7.	Marginal Cost (MC)



	4.4.8.	The relationship between Average Cost and Marginal cost
	4.5.	Long Run Cost Curve:
	4.6.	Revenue Analysis
	4.6.1.	Revenue Concepts
	4.6.2.	•
	4.6.3.	Relationship among TR, AR and
		MR Curves
	4.6.4.	TR, AR, MR and Elasticity of Demand
	4.7.	Conclusion
5. Market Structure and	5.1.	Introduction
Pricing	5.2.	Meaning of Market
	5.3.	Classification of Market
	5.4.	Equilibrium Conditions for a Firm
	5.4.1.	Total curve approach
	5.4.2.	Marginal curve Approach
	5.5.	Perfect Competition
	5.5.1.	Features of the Perfect Competition
	5.5.2.	Perfect Competition: Firm's Equilibrium in the Short Run
	5.5.3.	Perfect Competition: Firm's Equilibrium in the Long Run (Normal Profit)
	5.8.	Monopolistic Competition
	5.8.1.	Features of Monoplistic competition
	5.8.2.	Price and Output Determination under Monoplistic Competition
6. Distribution Analysis	6.1.	Introduction
	6.2.	Meaning of Distribution
	6.3.	Kinds of Distribution of income
	6.4.	Marginal Productivity theory of distribution
	6.6.	Wages
	6.6.1.	3
	6.6.2.	3
	6.7.	Theories of Wages
	6.7.3.	, ,
	6.7.5.	, , ,
	6.8.	Interest
	6.8.1.	5
	6.8.2.	
	6.10	Profit Magning of profit
		Meaning of profit
1	U. I U. Z.	Kinds of Profit

CLASS: 11 SUBJECT: HISTORY

UNIT	CONTENT		
1. Early India: From the Beginnings to the Indus Civilisation	Entire Unit		
2. Early India: The	Introdu	ction	
Chalcolithic, Megalithic, Iron Age and Vedic Cultures	2.1.	Pre-Aryan, Late Harappan and Chalcolithic Cultures of India	
and vedic Cultures	2.2.	Iron Age in North India	
	2.3.	Megalithic/ Iron Age in Tamil Nadu	
	2.4.	Megalithic Sites in Tamil Nadu	
	2.5.	The Aryans and Rig Vedic Society	
	2.6	Rig Vedic Culture	
	2.7	Later Vedic Culture	
3. Rise of Territorial	Introdu	ction	
Kingdoms and New	3.1.	Developments in the Gangetic Plain	
Religious Sects	3.2	Janapadas to Mahajanapadas	
	3.3	Emergence of Heterodox Thinkers	
	3.4	Ajivikas	
	3.5	Jainism	
	3.6	Buddhism	
4. Emergence of State	Introdu	ction	
and Empire	4.1.	Rise of Magadha under the Haryanka Dynasty	
	4.2.	Nandas: The First Empire Builders of India	
5. Evolution of Society in South India	Entire Unit		
6. Polity and Society in	6.3.	The Tamil Kingdoms	
Post-Mauryan Period	6.4.	Trade Between Tamizhagam and Rome	
7. The Guptas	Introdu	ction	
	7.1.	Chandragupta I and Empire Building	
	7.2.	Samudragupta	
	7.3.	Chandragupta II	
	7.4.	Gupta's Administrative System	

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STANDARD: 11 SUBJECT: POLITICAL SCIENCE

UNIT	CONTENT
1. Introduction of	1.1 Meaning, Definition and origin of political
Political Science	science
	1.2 Nature of Political science
	1.3 scope of Political science
2. State	2. Introduction
	2.1 Meaning and Definition of State
	2.2 Essential Elements of State
	2.3 Society, State and Government
	2.5 Concept of Welfare State
	2.6 Concept of soft state
	2.7 Concept of over Developed State
3. Basic concept of political science Part - I	Entire Unit
4. Basic Concept of	4.1 Law
Political Science	4.1.1 Introduction
Part - II	4.1.2 Meaning of Law
	4.1.3 Classification of Laws
	4.1.4 The sources of law
	4.1.5 How Law is Related to state and Morality?
	4.1.6 How Law and Public opinion are related to each other?
	4.2 Citizenship
	4.2.1 Introduction
	4.2.2 Citizenship and the City - State
	4.2.4 Citizenship In India
	4.2.5 Global citizenship and National citizenship
	4.3 Rights and Duties
	4.3.1 Introduction
	4.4 Political obligation
	4.4.1 Political obligation and Political Authority



5. Democracy	5.1 Definition and types of democracy	
	5.4 Achievement of Indian Democracy	
	5.5 Challenges to Indian Democracy	
6. Forms of	6.1 Introduction	
Governments	6.2 Meaning , Definition and Nature of Government	
	6.3 Unitary form of Government	
	6.4 Federal form of Government	
	6.5 Parliamentary form of Government	
	6.8 How to evaluate the performance of a	
	Government	
7. Political Thought	7.1 Plato	
	7.2 Aristotle	
	7.4 Niccolo Machiavelli	
	7.9 Karl Marx	



CLASS: 11 SUBJECT: GEOGRAPHY

UNIT	CONTENT
1. Fundamentals of	1.1 Introduction
	1.2 Defining Geography
Geography	1.3 Evolution of Geography
	1.7 Branches of Geography
	2.1 Introduction
	2.2 Theories of the Earth's origin
2. The solar system and the earth	2.3 Modern theories of the origin of the Universe
	2.14 Motions of the earth Seasons
	2.16 Time Zones of the World
	3.1 Introduction
	3.3 Continental Drift Theory
3.Lithosphere:	3.4 Plate Tectonics
Endogenic	3.5 Plate boundaries
Processes	3.11 Rocks
	3.11.1 Rock types
	3.12 Rock Cycle
	4.1 Introduction
4.Lithosphere:	4.6 The River
Exogenic Processes	4.7 Glacier
	4.9 Wind
	4.10 Waves

CLASS: 11 SUBJECT: STATISTICS

REVISION TEST - 1

UNIT	CONTENT
1. Scope of Statistics and Types of the data	Introduction 1.2 Definitions 1.3 Functions of Statistics 1.4 Scope and Applications 1.4.1 Statistics and actuarial science 1.4.2 Statistics and Commerce 1.4.3 Statistics and Economics 1.4.4 Statistics and Medicine 1.4.5 Statistics and Agriculture 1.4.6 Statistics and Industry 1.4.7 Statistics and Information Technology 1.4.8 Statistics and Government 1.5 Big Data 1.6 Variable and Types of data 1.7 Measurement scales 1.7.1 Nominal scales 1.7.2 Ordinal scales 1.7.3 Interval scales 1.7.4 Ratio scales
2. Collection of data and Sampling methods	Introduction 2.2 Methods of Collecting Primary Data 2.2.1 Direct Method 2.2.2 Indirect Method 2.2.3 Questionnaire Method 2.2.4 Local correspondents Method 2.2.5 Enumeration Method 2.3 Secondary Data 2.4 Population 2.5 Census Method 2.6 Sampling method 2.7 Probability sampling 2.7.1 Simple random sampling 2.7.2 Stratified random sampling

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3. Classification and	Introduction
tabulation of data	3.1 Classification of data and Objectives of
	Classification
	3.2 Types of classifications
	3.2.1 Classification by Time or Chronological Classification
	3.2.2 Classification by Space (Spatial) or Geographical Classification
	3.2.3 Classification by Attributes or Qualitative Classification
	3.2.4 Classification by Size or Quantitative Classification
	3.3 Tabulation
	3.5 Components of Table
	3.6 Frequency Distribution
	3.6.1 Discrete Frequency Distribution
	3.6.2 Continuities Frequency Distribution
	3.6.3 Inclusive and Exclusive Methods of Forming Frequency Distribution
	3.6.4 Guidelines on Compilation of Continuities Frequency Distribution
	3.7 Cumulative Frequency Distribution
	3.9 Stem and Leaf Plot
4. Diagrammatic and Graphical	Introduction
Representation of Data	4.1 Meaning and significance of diagrams and graphs
	4.2 Rules for constructing diagrams
	4.3 Types of Diagrams
	4.3.1 Simple Bar Diagrams
	4.3.2 Pareto Diagrams
	4.3.3 Multiple Bar Diagrams
	4.3.4 Component Bar Diagrams (Sub-divided Bar Diagram)
	4.3.5 Percentage Bar Diagrams
	4.3.6 Pie Diagrams
	4.3.7 Pictogram
	4.4 Types of Graphs
	4.4.1 Histogram
	4.4.2 Frequency Polygon
	4.4.3 Frequency Curve
	4.4.4 Cumulative Frequency Curve (Ogive)



5. Measures of Central Tendency	Introduction	
	5.1 Definitions of Measures of Central Tendency	
	5.2 Characteristics for a good Statistical average	
	5.3 Various Measures of Central Tendency	
	5.3.2 Geometric Mean	
	5.3.3 Harmonic Mean	
	5.3.4 Median	
	5.3.5 Mode	
	5.4 Empirical relationship among mean, median and mode	





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STANDARD: 11 SUBJECT: BUSINESS MATHEMATICS & STATISTICS

UNIT	CONTENTS
1. Matrices and Determinants	Introduction 1.1 Determinants: [Definition - matrix and determinants] 1.1.2 Minors 1.1.3 Cofactors 1.1.4 Properties of determinants (without proof) 1.2 Inverse of a Matrix 1.2.1 Singular Matrix 1.2.2 Non - singular Matrix 1.2.3 Adjoint of a Matrix 1.2.4 Inverse of a Matrix 1.3 Input and Output Analysis 1.3.1 The Hawkins - Simon conditions
2. Algebra	Introduction 2.1 Partial Fractions: 2.1.1 Denominator contains non - repeated linear factors 2.2 Permutations 2.2.1 Factorial 2.2.2 Fundamental principal of counting 2.2.3 Additional Fundamental principal of counting 2.2.4 Permutation 2.2.5 Circular permutation 2.3 Combinations 2.4 Mathematical Induction
3. Analytical Geometry	Introduction 3.1 Locus 3.1.1 Equations of locus 3.2 System of Straight Lines 3.2.1 Recall 3.2.2 Angle between two straight lines 3.2.3 Distance of a point from a line 3.2.4 Concurrence of three lines 3.4 Circle 3.4.1 The equation of a circle when the centre and radius are given 3.4.2 Equation of a circle when the end points of a diameter are given 3.4.3 General equation of a circle 3.4.4 parametric form of a circle 3.4.5 Tangents



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4. Trigonometry	Introduction 4.1 Trigonometric Ratios 4.1.1 Quadrants 4.1.2 Signs of the trigonometric ratios of an angle as it varies from 0° to 306° 4.1.3 Trigonometric ratios of allied angles 4.2 Trigonometric Ratios of Compound Angles: 4.2.1 Compound angles 4.2.2 Sum and difference formulae of sine, cosine and tangent 4.2.3 Trigonometric ratios of multiple angles 4.3 Transformation formulae: 4.3.1 Transformation of the products into su or difference 4.3.2 Transformation of sum or difference in product	m
5. Differential Calculus	Introduction 5.1 Functions and their Graphs 5.1.1 Quantity 5.1.2 Constant 5.1.3 Variable 5.1.4 Intervals 5.1.5 Neighbourhood of a point 5.1.6 Function 5.1.7 Classification of functions 5.1.8 Even and odd functions 5.1.9 Explicit and implicit functions 5.1.10 Constant function 5.1.11 Identify function 5.1.12 Modulus function 5.1.13 Signum function 5.1.14 Step function 5.1.15 Rational Function 5.1.16 Polynomial function 5.1.17 Linear function 5.1.18 Quadratic function 5.1.19 Exponential Function 5.1.20 Logarithmic function 5.1.21 Sum, difference, product and quotient two functions 5.2 Limits and Derivatives 5.2.1 Existence of limit 5.2.2 Algorithm of left hand limit 5.2.3 Algorithm of right hand limit 5.2.4 Some results of limits 5.2.5 Indeterminate forms and evaluation of limits	of



5.2.6	Methods of evaluation of algebraic limits
5.2.7	Some standard limits
5.2.8	Continuous function
5.2.9	Some properties of continuous functions
5.2.10	Differentiability at a point
5.2.11	Left hand derivative and right hand
	derivative
5.3	Differentiation Techniques
5.3.1	Some standard results [formulae]
5.3.2	General rules for differentiation
5.3.5	Differentiation of parametric functions
5.3.6	Differentiation of a function with respect
	to another function
5.3.7	Successive differentiation







வகுப்பு : 11 பாடம்: சிறப்புத்தமிழ்

இயல்	பாடப்பொருள்
1. കഖിതെച്ചധിലര്	பாடம் முழுவதும்
2. கதையியல்	தமிழ்ச் சிறுகதை வளர்ச்சியும் தோற்றமும் சிறுகதை வாசிப்பும் திறனாய்வும் சிறுகதை எழுதும் கலை இறுக மூடிய கதவுகள் நசுக்கம் அயலகத்தமிழ் எழுத்தாளர் சிறுகதை– பேபி குட்டி குறுங்கதை – ரப்பர் பந்து நுண்கதைகள் – பனித்துளியின் பேச்சு ஒற்றைக்குரல்
3. அரங்கவியல்	நாடகக்கலை தெருக்கூத்தில் கட்டியங்காரன் நாடகவியல் ஆளுமைகள்





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CLASS: 11 SUBJECT: COMMUNICATIVE ENGLISH

UNIT	CONTENT
1. I would like to Rise	Travel and Tourism - Packing as an Art (Prose)
and Go!	Grammar- Framing Questions
	Informal Letter and E-mail
	Brochures
	Itinerary
	Practical
	Speaking Skill :
	Dialogue / Role Play /Short Speech
2. Think Globally! Act	Think Globally (Prose)
Locally!	Growth of English
	Language study
	Specialisation in the field of medicine
	Time expression : Since or For
	Report writing : Sports day
	English for computers
	English for hospitality
	Message writing
	Resume and CV
	Covering letter
	Filling up forms
	Facing interviews
3. Dare The Waves!	Dare the waves (Prose)
	A passage on Disaster Management
	Language Study
	Polysemy, Homophones, Antigrams, Homonyms,
	Contranyms
	Article Writing
	Practicals
	Speaking Skill:
	Talk Show

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பாடத்திட்டம் 2021–2022

வகுப்பு : 11 பாடம் : அறவியலும் இந்தியப் பண்பாடும்

அலகு	பாடப்பொருள்
1.தமிழகப் பண்பாடு — ஓர் அறிமுகம்	பாடம் முழுவதும்
2.சிந்துவெளி நாகரிகம்	நுழைவு வாயில் சான்றுகள் சிந்துவெளி நாகரிகமும் தமிழர் நாகரிகமும் நகர அமைப்பும் கட்டடங்களும் கட்டடக்கலை நீச்சல்குளம் தானியக் களஞ்சியம் சமுதாய நிலை பெண்களின் நிலை உணவுவகைகள் உடைகள் நகரநாகரிகம் சமயம்மற்றும்வழிபாடு கலைகள் எழுத்துகள் முத்திரைகள் சிந்துவெளி நாகரிகத்தின் அழிவு இந்தியப் பண்பாட்டு வளர்ச்சிக்குச் சிந்துவெளி நாகரிகத்தின் கொடை நிறைவுரை
3. தமிழ் இலக்கியங்கள் உணர்த்தும் வாழ்வியல் நெறிகள்	பாடம் முழுவதும்
4. தமிழர் கலைகள்	நுழைவு வாயில் கட்டடக்கலை சங்க காலம் சிற்பங்கள் பிரதிமைகள் பல்லவர் காலம் சோழர் காலம் செப்புத் திருமேனிகள் விஜயநகர மற்றும் நாயக்கர் காலம் ஒவியக்கலை இசைக்கலை பக்தி இயக்கமும் இசையும்
5. திருவிழாக்கள்	பாடம் முழுவதும்



CLASS: 11 SUBJECT: COMPUTER APPLICATIONS

UNIT		CONTENT
1. Introduction to Computers	1.1.	Introduction to Computers
	1.2.	Generation of Computers
	1.5.	Components of a Computer
2. Number System	2.1.	Introduction
	2.2.	Data Representation
	2.3.	Different Types Of Number System
	2.4.	Number System Conversion
3. Computer Organisation	3.1.	Introduction
	3.3.	Data Communication Between CPU And Memory
	3.5.	Memory Devices
4. Theoretical Concepts of Operating System	4.1.	Introduction To Software
	4.2.	Introduction To Operating System
	4.4.	Key Features Of The Operating System
	5.1.	Introduction To Os
5. Working With Windows Operating System	5.2.	Introduction To Windows Os
	5.5.	Windows Desktop
	5.9.	Elements Of A Window
	5.11.	Managing Files And Folders
	6.1.	Introduction To Word Processor
	6.2.	An Introduction To Open office Writer
	6.3.	Tamil Typing Interface
	6.4.	Editing A Document
	6.5.	Select, Move And Copy Text
6. Introduction to Word Processor	6.10.	Working With Header And Footer
	6.11.	Find And Replace
	6.12.	Spell Check
	6.13.	Working With Tables
	6.15.	Enhancing And Printing Document
	6.16.	Page Preview, Setting The Printer And Printing A Document

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7. Working With Open office Calc	7.1.	Introduction To Spreadsheet
	7.2.	Working With Openoffice Calc
	7.3.	Creating A New Worksheet
	7.4.	Entering Data
	7.8.	Autofill Feature
	7.9.	Inserting Columns, Rows And Cells
	7.10.	Deleting Columns, Rows And Cell
	7.12.	Functions
8. Presentation Basis	8.1.	Presentation Software Meaning
	8.6.	Window Elements Of Impress
	8.8.	Formatting Presentation
	8.9.	Running The Slide Show
	8.11.	Master Slide
	8.12.	Creating Graphic Object
	8.14.	Inserting Audio And Video
9. Introduction to Internet and Email	9.1.	Necessity Of Internet
	9.2.	Internet And Www
	9.3.	Types Of Internet Services
	9.5.	Email
	9.6.	Internet Threats
	9.8.	Webpage, Website -Difference
	9.9.	Static And Dynamic Webpages

PRACTICAL

SI.No	Торіс
1.	Open office Writer - Formatting Invoice
2.	Open office Calc - Interest Calculations
3.	HTML - Form Design