

70% Portion (Assignment)
Marathi (S. L.) Part - II - Paper - I

भाग 1 व भाग 2 (पाठ, कविता)		
अ.क्र.	पाठ कविता	
1.	मामू -	शिवाजी सावंत
2	प्राणसई (कविता)	इंदिरा संत
3	अशी पुस्तकं	डॉ. निर्मलकुमार फडकुले
5	परिमळ	प्रल्हाद केशव अत्रे
6	दवांत आलिस भल्या पहाटीं (कविता)	बा. सी. मर्ढेकर
9	वहीनींचा 'सुसाट' सल्ला	शोभा बोंद्रे
10	शब्द (कविता)	यशवंत मनोहर
12	पेंजण (कविता)	नीलम माणगावे

भाग 3 (साहित्यप्रकार)

नाटक - साहित्य प्रकार - परिचय

अ.क्र.		
1.	हसवाफसवी	दिलीप प्रभावळकर
3	सुंदर मी होणार	पु. ल. देशपांडे

भाग 4 - उपयोजित मराठी

अ.क्र.		
1.	सूत्र संचालन	
2	मुद्रितशोधन	
3	अनुवाद	

भाग 5 - व्याकरण

अ.क्र.		
1.	शब्दशक्ती	
3	वाक्य संश्लेषण	
4	काळ	

70% Portion (Assignment)
Marathi (S. L.) Part - II - Paper- II

भाग 1

अ.क्र.

1. निबंध लेखन
2. सर्जनशील लेखन
अ - समानार्थी शब्द
ब - शब्दापासून शब्द तयार करणे
क - गटात न बसणारा शब्द
ड - शब्दांचा अर्थ सांगणे
3. व्याकरण

भाग 2 (विनोद एक वाङ्मय प्रकार)

- | | | |
|----|--------------------------|-----------------|
| अ) | विनोद : एक वाङ्मय प्रकार | |
| ब) | भुताचा जन्म | द. मा. मिरासदार |
| क) | दहावीची (अ) पूर्वतयारी | मुकुंद टाकसाळे |

भाग 3 (गद्य विभाग)

अ.क्र. पाठ कविता

- | | | |
|----|------------------------|---------------|
| 1. | ज्याचं त्याचं नंदनवन | रवींद्र पिंगे |
| 3. | माझ्या आयुष्याची गोष्ट | गिरिजा कीर |
| 5. | अति काळजीचे परिणाम | निरंजन घाटे |
| 6. | सोयरा वृक्षवल्लीचा | अविनाश हळबे |

भाग 4 (पद्य विभाग)

- | | | |
|----|------------------------------|------------------------|
| 1. | संतवाणी | |
| | अ - सांगितली खूण मनें माझ्या | संत नामदेव |
| | ब - तूं येरे बा विडला | संत जनाबाई |
| 2. | अखंड | महात्मा ज्योतीराव फुले |
| 3. | देव अजब गारोडी | बहिणाबाई चौधरी |
| 4. | आवाहन | कुसुमाग्रज |
| 5. | या जन्माला फुटे न भाषा | विं. दा. करंदीकर |
| 6. | खांब | शांता शेळके |

भाग 5 (उपयोजित मराठी)

अ.क्र.

1. लेख - अग्रलेख
3. भाषेचे उपयोजन - दूर चित्रवाणी
5. संगणक

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ACADEMIC YEAR 2020-2021

70% CONTENT IN VIEW OF COVID-19 PANDEMIC

INTERMEDIATE 1st YEAR ACCOUNTANCY SYLLABUS

Unit 1 Introduction to Accounting

- Introduction - Basic Accounting Terms
- Accounting Principles - Accounting Principles, GAAP - Accounting Concepts, Accounting Conventions

Unit II Recording of Business Transactions

Accounting Equation, Basis of Accounting, Systems of Accounting, Meaning of Account, Classification of Accounts - Rules of Debit and Credit - Journal and Ledger

Unit III Subsidiary Books and Bank Reconciliation Statement

- Subsidiary Books - Meaning - Types of Subsidiary Books,
- Cash Book and BRS - Meaning, - Types of Cash Book and their preparation - Simple Cash Book - , Three Column Cash book, Petty Cash Book
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Unit II Consignment Accounts

- Meaning of Consignment - Difference between Consignment and Sale - Terminology used in Consignment Accounts - Valuation of Unsold Stock - Concept of Proforma Invoice (Theory only)- Illustrations and Exercises,

Unit III Accounts of Not for Profit (or Non-Trading) Organisations

- Meaning- Characteristics - Accounting Records - Difference between Capital and Revenue Expenditure - Difference between Capital and Revenue receipts - Deferred Revenue Expenditure - Difference between Receipts and Income- Difference between Payments and Expenditure - Meaning and Accounting Treatment of Important terms - Preparation of Receipts & Payments Account - Preparation of Income & Expenditure Account - - Illustrations and Exercises

Unit IV Partnership Accounts

- Introduction - Partners Capital Accounts- Fixed and Fluctuating Capital- Final Accounts- Admission and Retirement of Partner; Illustrations and Exercises

Unit V Computerized Accounting System

- Meaning - Features - Advantages - Comparison between Manual and Computerized Accounting System -

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INTERMEDIATE 1st YEAR ARABIC SYLLABUS

(NON-DETAILED)	(PROSE)
.I ام المؤمنين خديجة الكبرىؓ	.I دروس من القرآن الكريم
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.V الطيب الصغير	.V اى بي جى عبدالكلام
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	.VI خدمة الوالدين
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.II المركب التوصيفي	.II أحب
.III الجملة الاسمية	.III شباب نبيل
.IV الجملة الفعلية	.IV أيها الطلاب
.V الفعل واقسامه	
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د. الجملة الفعلية	د. أيها الطلاب
هـ. الفعل واقسامه	
و. كتابة الرسالة	

ACADEMIC YEAR 2020-2021

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INTERMEDIATE 1st YEAR BOTANY SYLLABUS

UNIT	CHAPTER NO	TOPIC
	1	Diversity in the living world 1.1 What is living 1.2 Diversity in living world
	2	Biological classification 2.1 kingdom of Monera 2.2 kingdom of Protista 2.3 kingdom of Fungi 2.4 Kingdom Plantae 2.5 kingdom of Animalia 2.6 Six kingdom classification 2.7 Viruses, Viroid, Prions and Lichens
	3	Science of Plants- Botany 3.1 Origin 3.2 Development 3.3 Scope 3.4 Branches
	4	Plant kingdom 4.1 Algae 4.2 Bryophytes 4.3 Pteridophytes 4.4 Gymnosperms 4.6 Plant life cycles and Alternation of Generations
II	5	Morphology of flowering plants 5.4 The Inflorescence 5.5 The flower
III	7	Sexual Reproduction in Flowering Plants 7.1 Pre fertilization structures and events 7.2 Pollination 7.3 pollen pistil interaction 7.4 Double fertilization 7.5 Post fertilization structures and events 7.6 Special modes Apomixis, Parthenocarpy and Polyembryony

IV	8	Plant Systematics
		8.1 Systems, Types of classification
		8.2 Semi technical description of a typical flowering plant
		8.3 Description of some important families
		8.3.2 Solanaceae
		8.3.3 Liliaceae
V		Cell structure and Functions
	9	Cell- the Unit of Life
	10	Biomolecules
	11	Cell Cycle and Cell division
VI	12	INTERNAL ORGANISATION OF PLANTS
	12.3	Anatomy of Dicotyledonous and monocotyledonous Plants
	12.3.1	Dicotyledonous root
	12.3.2	Monocotyledonous root
	12.3.3	Dicotyledonous stem
	12.3.4	Monocotyledonous system
VII	13	Plant Ecology
	13.1	Introduction
	13.2	Plant Communities and Ecological Adaptations

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INTERMEDIATE 1st YEAR BOTANY PRACTICAL SYLLABUS

1. Study of the parts of a compound microscope.
2. Identification and study of the morphology of representative types of bacteria, fungi and different plant groups.
3. Study and identification of different types of Inflorescences (**Special types only**)
4. Study of the reproductive parts of commonly available flowers
5. Calculation of the percentage of pollen germination
6. Study of the pollen tube growth on stigma.
7. Study and identification of various stages of female gametophyte development in the ovary of a flower.
8. Study and description of Family: Solanaceae
9. Study and description of Family: Liliaceae
10. Preparation of Herbarium sheets of flowering plants
11. Study of anatomy of dicot root
12. Study of anatomy of monocot root
13. Study of anatomy of dicot stem
14. Study of anatomy of monocot stem
15. Preparation and study of mitosis in onion root tips (To be demonstrated by teacher)
16. Study of stages of meiosis using permanent slides.

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INTERMEDIATE 2nd YEAR BOTANY SYLLABUS

UNIT - 1: PLANT PHYSIOLOGY

CHAPTER 3: ENZYMES.

- 3.1 Chemical Reactions.
- 3.2 Enzymatic conversions.
- 3.3 Nature of Enzyme action.
- 3.4 Factors affecting enzyme activity.
- 3.5 Classification and nomenclature of enzymes.
- 3.6 Cofactors.

CHAPTER 4 PHOTOSYNTHESIS IN HIGHER PLANTS.

- 4.1 What do we know?
- 4.2 Early Experiments.
- 4.3 What is the site of Photosynthesis?
- 4.4 How many pigments are involved in Photosynthesis?
- 4.5 What is Light Reaction?
- 4.6 The Electron transport
- 4.7. Where are the ATP and NADPH are used?
- 4.8 The C₄ Path way.
- 4.9 Photo Respiration
- 4.10 Factors affecting Photosynthesis

CHAPTER 5: RESPIRATION IN PLANTS

- 5.1 Do plants Breathe?
- 5.2 Glycolysis
- 5.3 Fermentation.
- 5.4 Aerobic Respiration.
- 5.5 The Respiratory Balance sheet.
- 5.6 Amphibolic Pathway.
- 5.7 Respiratory Quotient

CHAPTER 6. GROWTH AND DEVELOPMENT

- 6.4 Plant Growth regulators.

UNIT 3: Genetics

Chapter 9: --Principles of Inheritance and Variations

- 9.1 Mendel's Experiments.

- 9.2 Inheritance of one gene (monohybrid cross)
- 9.3 Deviations from Mendelian concept of dominance.
- 9.4 Inheritance of Two genes (Dihybrid cross)
- 9.5 Chromosomal Theory of Inheritance
- 9.6 Linkage and recombination.
- 9.7 Mutations

UNIT 4 MOLECULAR BIOLOGY

CHAPTER 10: Molecular Basis of Inheritance.

- 10.1 The DNA
- 10.2 The search for Genetic Material.
- 10.3 RNA world
- 10.4 Replication
- 10.5 Transcription.
- 10.6 Genetic code
- 10.7 Translation.
- 10.8 Regulation of Gene Expression

UNIT- 5 BIOTECHNOLOGY

CHAPTER 11: BIO-TECHNOLOGY; PRINCIPLES AND PROCESSES

- 11.1 Principles of Biotechnology.
- 11.2 Tools of Recombinant DNA Technology
- 11.3 Process of Recombinant DNA Technology.

Chapter 12 Biotechnology and its Applications

- 12.1 Biotechnological applications in agriculture
- 12.2 Other applications of biotechnology
- 12.3 Transgenic plants
- 12.4 Bio-safety and ethical issues.

UNIT 6: PLANTS, MICROBES AND HUMAN WELFARE

CHAPTER 14: MICROBES IN HUMAN WELFARE

- 14.1 Microbes in Household products.
- 14.2 Microbes in Industrial products.
- 14.3 Microbes in Sewage treatment.
- 14.4 Microbes in production of Biogas.
- 14.5 Microbes as Bio control agents.
- 14.6 Microbes as Bio- fertilizers.
- 14.7 Challenges posed by Microbes.

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INTERMEDIATE 2nd YEAR BOTANY PRACTICAL SYLLABUS

Part-I (To be performed by students)

1. Separation of chlorophyll pigments by paper chromatography.
2. Preparation of temporary mount of dicot and monocot root and stem.

Part II (To be demonstrated by teacher)

3. Study of the distribution of stomata in the upper and lower surface of leaf.
4. Study of aerobic respiration
5. Observe and comment on the following
 - A. Anaerobic respiration
 - B. Phototropism
 - C. Apical bud removal

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INTERMEDIATE 2nd YEAR PRACTICALS CHEMISTRY SYLLABUS

I. Qualitative analysis

Determination of one cation and one anion in a given salt.

Cation : Pb^{2+} , Cu^{2+} , Al^{3+} , Fe^{2+} , Mn^{2+} , Zn^{2+} , Ni^{2+} , Ca^{2+} , Sr^{2+} , Ba^{2+} , Mg^{2+} , NH_4^+ Anions: $(CO_3)^{2-}$, $(SO_4)^{2-}$, Cl^- , Br^- , CH_3COO^- , NO_3^- - (Note: Insoluble salts excluded)

II. Volumetric analysis (Titrimetry)

II.a. Determination of concentration/ molarity of $KMnO_4$ solution by titrating it against a standard Ferrous Ammonium Sulphate solution

II.b. Determination of concentration/ molarity of $KMnO_4$ solution by titrating it against a standard Oxalic acid solution

II.c. Determination of concentration/ molarity of HCl solution by titrating it against a standard Sodium Carbonate solution

II.d. Determination of concentration/ molarity of $NaOH$ solution by titrating it against a standard Oxalic acid solution

III.a. Tests for the functional groups present in organic compounds:

Unsaturation, alcoholic, phenolic, aldehydic, ketonic, carboxylic and amino (Primary) groups.

III.d Characteristic tests of carbohydrates, and proteins in pure samples and their detection in given food stuffs.

PROJECT

Scientific investigations involving laboratory testing and collecting information from other sources

A few suggested Projects.

- Study of the presence of oxalate ions in guava fruit at different stages of ripening.
- Study of quantity of casein present in different samples of milk.
- Preparation of soybean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, etc.
- Study of the effect of Potassium Bisulphate as food preservative under various conditions (temperature, concentration, time, etc.)
- Study of digestion of starch by salivary amylase and effect of pH and temperature on it.
- Comparative study of the rate of fermentation of following materials: wheat flour, gram flour, potato juice, carrot juice, etc.
- Extraction of essential oils present in Saunf (aniseed), Ajwain (carum), Illaichi (cardamom).
- Study of common food adulterants in fat, oil, butter, sugar, turmeric powder, chilli powder and pepper.

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INTERMEDIATE 1st YEAR CHEMISTRY SYLLABUS

Chapter 1 ATOMIC STRUCTURE	1.3 Developments leading to the Bohr's model of atom 1.4 Bohr's model for hydrogen atom 1.5.1 Dual Behaviour of matter (Brogie's equation) 1.5.2 Heisenberg's Uncertainty principle 1.6.1 quantum numbers, energies of orbitals - filling of orbitals in atom: Aufbau Principle, Pauli's exclusion principle and Hund's rule of maximum multiplicity- electronic configurations of atoms-stability of completely filled and half filled subshells.
Chapter 2 CLASSIFICATION OF ELEMENTS AND PERIODICITY OF PROPERTIES	2.3 Modern periodic law and the present form of periodic table, 2.4 Nomenclature of elements with atomic number greater than 100. 2.5 Electronic configuration of elements and the periodic table 2.6. Electronic configuration and types of elements s.p.d. and f blocks 2.7. periodic trends in properties of elements -atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency.
Chapter 3 CHEMICAL BONDING AND MOLECULAR STRUCTURE	3.1 Kossel – Lewis approach to chemical bonding 3.2 Ionic or electrovalent bond 3.3 Bond parameters 3.4 VSEPR theory: predicting the geometry of simple molecules 3.5 Valence bond theory 3.6 Hybridisation 3.7 Coordinate bond-definition with examples 3.8 Molecular orbital theory – bonding in some homonuclear diatomic molecules 3.9 Hydrogen bonding
Chapter 4 STATES OF MATTER: GASES AND LIQUIDS	4.1 Intermolecular forces 4.2 Thermal energy 4.3 Intermolecular forces Vs thermal interactions 4.4 The gaseous State. 4.5 The gas Laws 4.6 Ideal gas equation. 4.7 Grahams Law of diffusion – Dalton's law of partial pressures 4.8 Kinetic molecular theory of gases 4.9 Kinetic gas equation of an ideal gas (No derivation) – deduction of gas laws from kinetic gas equation 4.11 Behaviour of real gases: deviation from ideal gas behaviour – compressibility factor Vs pressure diagrams of real gases.
Chapter 5 STOICHIOMETRY	5.1 Importance of Chemistry-Some basics 5.3 Atomic and molecular masses- mole concept and molar mass concept of equivalent weight 5.4 Percentage composition of compounds and calculations of empirical and molecular formulae of compounds. 5.5 Stoichiometry and stoichiometric calculations. 5.7 redox reations 5.8 oxidation number concept 5.9 types of redox reactions 5.10 balancing of redox reactions-oxidation number method – of reaction(ion- electron) method.
Chapter 6 THERMODYNAMICS	6.1 Thermodynamic terms 6.2 work- enthalpy – Extensive and intensive properties - 6.3 Measurement of ΔU and ΔH : Calorimetry 6.4 Enthalpy change, $\Delta_r H$ of a reaction 6.5 Enthalpies for different types of reactions 6.6 Spontaneity 6.7 Gibbs energy change and equilibrium. 6.8 Absolute Entropy and the third law of thermodynamics
Chapter 7 CHEMICAL EQUILIBRIUM AND ACIDS BASES	7.1 Equilibrium in physical process. 7.2 Equilibrium in chemical process- dynamic equilibrium 7.3 Law of chemical equilibrium - law of mass action and equilibrium constant 7.4 Homogeneous equilibria constant in gaseous system, relation between K_p & K_c 7.5 Heterogeneous equilibria 7.6 applications of

	<p>equilibrium constant 7.8 Factors affecting Equilibria- Le-chatelier's principle- Application to industrial synthesis of ammonia and sulphur trioxide 7.9 Ionic equilibrium in solutions 7.10 Acids and bases and salts – Arrhenius, Bronsted – Lowry and Lewis concepts of acids and bases 7.12 Buffer solutions-designing of buffer solution- preparation of acidic buffer 7.13 Solubility equilibria of sparingly soluble salts solubility product constant , common ion effect on solubility of ionic salts.</p>
Chapter 8 HYDROGEN AND ITS COMPOUNDS	<p>8.1 Position of hydrogen in the periodic table 8.2 Dihydrogen-occurrence and isotopes 8.5 Hydrides: ionic, covalent and non stoichiometric hydrides 8.6 Physical and chemical properties of water, 8.8 heavy water 8.9 hydrogen as a fuel.</p>
Chapter 9 S- BLOCK ELEMENTS: ALKALI AND ALKALINE EARTH METALS	<p>Group I Elements: 9.1 Alkali metals; electronic configurations; atomic and ionic radii; ionization enthalpy; hydration enthalpy; physical properties; chemical properties; uses 9.2 General characteristics of the compounds of the alkali metals: oxides; halides; salts of oxy acids 9.3 Anomalous properties of lithium: 9.6 Alkaline earth metals; electronic configuration; ionization enthalpy; hydration enthalpy; physical properties; chemical properties; uses. 9.7 General characteristics of compounds of the alkaline earth metals 9.8 Anomalous behaviour of beryllium; its diagonal relationship with aluminum.</p>
Chapter 10 P- BLOCK ELEMENTS:GROUP-13 BORON FAMILY	<p>10.1 General introduction – electronic configuration, atomic radii, ionization enthalpy, electro negativity; physical and chemical properties 10.2 Important trends and anomalous properties of boron.</p>
Chapter 11 P - BLOCK ELEMENTS: GROUP-14 CARBON FAMILY	<p>11.1 General introduction - electronic configuration, atomic and covalent radii, ionization enthalpy, electro negativity; physical and chemical properties. 11.2 Important trends and anomalous properties of carbon 11.3 Allotropes of carbon 11.4 Uses of carbon.</p>
Chapter 12 ENVIRONMENTAL CHEMISTRY	<p>----- Nil-----</p>
Chapter 13 ORGANIC CHEMISTRY- SOME BASIC PRINCIPLES AND TECHNIQUES HYDROCARBONS	<p>13.1 General introduction 13.2 Tetravalency of Carbon: shapes of organic compounds 13.3 Structural representations of organic compounds 13.4 Classification of organic compounds 13.5 Nomenclature of organic compounds 13.6 Isomerism 13.7 Fundamental concepts in organic reaction mechanisms 13.11 HYDROCARBONS- Classification of hydrocarbons. 13.12 Alkanes – nomenclature, isomerism (structural and conformations of ethane only) 13.12.1 Preparation and properties of alkanes 13.13 Alkenes- nomenclature, structure of ethene, isomerism (structural and geometrical). Methods of preparation of alkenes physical and chemical properties of alkenes 13.14 Alkynes – nomenclature and isomerism, structure of acetylene- methods of preparation of acetylene-physical properties, chemical reactions of acetylene 13.15 Aromatic Hydrocarbons: nomenclature and isomerism- structure of benzene, resonance and aromaticity-Preparation of benzene- physical and chemical properties of benzene- directive influence of functional groups in mono substituted benzene, carcinogenicity and toxicity</p>

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INTERMEDIATE 2nd YEAR CHEMISTRY SYLLABUS

Chapter 1 SOLID STATE	1.1 General characteristics of solids. 1.2 Amorphous and crystalline solids. 1.3 Classification of crystalline solids 1.4 Probing the structure of solids: X-ray Crystallography 1.5 Crystal lattices and unit cells 1.6 Number of atoms in a Unit cell 1.7 Close packed structures 1.8 Packing efficiency 1.9 Calculations involving unit cell dimensions 1.10 Imperfections in solids.
Chapter 2 SOLUTIONS	2.1 Types of solutions 2.2 Expressing concentration of solutions 2.3 Solubility 2.4 Vapour pressure of liquid solutions 2.5 Ideal and non-ideal solutions 2.6 Colligative properties and determination of molar mass.
Chapter 3 ELECTROCHEMISTRY AND CHEMICAL KINETICS ELECTROCHEMISTRY	3.3 Nernst equation 3.4 Conductance of electrolytic solutions applications of Kohlrausch's law chemical kinetics: 3.5 Electrolysis 3.9 Rate of a chemical reaction 3.10 Factors influencing rate of a reaction 3.11 Integrated rate equations 3.12 Pseudo first order reaction 3.13 Temperature dependence of the rate of a reaction.
Chapter 4 SURFACE CHEMISTRY	4.1 Adsorption and absorption 4.3 Colloids 4.4 Classification of colloids 4.6 Colloids Around us- application of colloids.
Chapter 5 GENERAL PRINCIPLES OF METALLURGY	-----Nil -----
Chapter 6 p-BLOCK ELEMENTS GROUP-15 ELEMENTS	6.1 Introduction-Occurance 6.2 Dinitrogen 6.3 Compounds of nitrogen-preparation and properties of ammonia 6.4 Oxides of nitrogen 6.5 Preparation and properties of nitric acid 6.6 Phosphorous-allotropic forms GROUP-16 ELEMENTS 6.10 Introduction-Occurance 6.11 Dioxygen-preparation, properties and uses 6.12 Simple oxides 6.13 Ozone-preparation, properties, structure, uses 6.14 Sulphur-allotropic forms 6.15 Sulphur dioxide-preparation, properties, uses 6.16 Oxoacids of sulphur, 6.17 sulphuric acid properties and uses GROUP-17 ELEMENTS 6.18 Occurance-Introduction 6.19 Chlorine-preparation, properties and

	uses 6.20 Hydrogen chloride: preparation, properties, uses 6.21 Oxoacids of halogens 6.22 Interhalogen compounds GROUP-18 ELEMENTS 6.23 Introduction-Occurance, electronic configuration, ionization enthalpy, atomic radii electron gain enthalpy, physical and chemical properties.
Chapter 7 d AND f BLOCK ELEMENTS & COORDINATION COMPOUNDS	7.1 Position in the periodic table 7.2 Electronic configuration of the d-block elements 7.3 General properties of the transition elements 7.8 Werner's theory of coordination compounds 7.9 Definitions of some terms used in coordination compounds 7.10 Nomenclature of coordination compounds 7.11 Isomerism in coordination compounds 7.12 Bonding in coordination compounds 7.13 Bonding in metal carbonyls 7.14 Stability of coordination compounds 7.15 Importance and applications of coordination compounds.
Chapter 8 POLYMERS	----- Nil -----
Chapter 9 BIOMOLECULES	9.1 Carbohydrates: Classification of carbohydrates, mono saccharides 9.2 Amino acids and Proteins. 9.5 Nucleic acids
Chapter 10 CHEMISTRY IN EVERYDAY LIFE	----- Nil -----
Chapter 11 HALO ALKANES AND HALO ARENES	11.1 Classification and nomenclature 11.2 Nature of C-X bond 11.3 Methods of preparation : alkyl and aryl halides 11.4 Physical properties of alkyl and arylhalides 11.5 Chemical reactions of alkyl and aryl halides.
Chapter 12 ORGANIC COMPOUNDS CONTAINING C,H AND O	(Alcohols, Phenols, Ethers, Aldehydes, Ketones and Carboxylic acids)Alcohols, Phenols and Ethers 12.1 Alcohols, phenols and ethers- classification 12.2 Nomenclature of alcohols, phenols and ethers 12.3 Structures of hydroxyl ,ether functional groups 12.4 Methods of preparation of alcohols, phenols 12.5 Physical properties of alcohols and phenols 12.6 Chemical reactions of alcohols and phenol 12.8 Ethers-Methods of preparation, physical properties and Chemical reactions Aldehydes and Ketones 12.9 Nomenclature and structure of carbonyl group 12.10Preparation of aldehydes and ketones 12.11Physical properties of aldehydes and ketones 12.12 Chemical reactions of aldehydes and ketones 12.13 Uses of aldehydes and ketones Carboxylic Acids 12.14

	Nomenclature and structure of carboxyl group 12.15 Methods of preparation of carboxylic acids 12.16 Physical properties of carboxylic acids 12.17 Chemical reactions of carboxylic acids 12.18 Uses of carboxylic acids.
Chapter 13 ORGANIC COMPOUNDS CONTAINING NITROGEN	Amines 13.1 Structure of amines 13.2 Classification 13.3 Nomenclature 13.4 Preparation of amines 13.5 Physical properties of amines 13.6 Chemical reactions of amines.

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INTERMEDIATE 1st YEAR COMMERCE SYLLABUS

Unit 1 Fundamentals of Business

- Classification of human activities; Economic and non-economic activities – Types of economic activities; Business – Profession & employment; Trade - Types of Trade; Aids to Trade

Unit II Forms of Business Organisations

- Concept and Meaning of business organization; Forms of business organization; Sole Proprietorship: Meaning and definitions – features; Partnership Firm : Meaning and definition – features of Partnership firm; Types of partners; Limited liability partnership firm; Registration of partnership firm;– Rights and duties of partners

Unit III Formation of Company as per Companies Act 2013

- Joint Stock Company : Meaning and Definition of a Company as per companies Act 2013; features and classification of joint stock companies; Partnership vs Joint Stock company; Types of Companies; Differences between private company and public company; Formation of a company;. Role of Promoter. Incorporation of the Company – Capital subscription – Minimum subscription – Certificate of commencement of business

Unit IV Sources of Business Finance

- Meaning of Business Finance — significance of Business Finance; Classification of Sources of funds – Factors determining the choice of source of finance;; Short Term sources of Finance - Bill discounting, Commercial paper, Repos, Working Capital loans, Micro Finance, etc

Unit V : MSMEs

- MSMEs: Meaning and definition of enterprise and MSMEs – Registration requirements under MSMED Act, 2006 – significance of MSMEs – Privileges offered to MSMEs –other promotional measures for MSMEs.
- E-Business: Meaning and Definition of E – business – Scope of E-business – Benefits of E-business –

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INTERMEDIATE 2nd YEAR COMMERCE SYLLABUS

Unit I Financial Markets and Stock Exchange

- Financial Markets: Meaning and Concept; Classification of Financial Markets; (Money Markets, Bond Markets, Debt Market, Equity Market, Forex Market, Derivatives, Structured Products);
Primary Market - Secondary Market; Public Issue (IPO) and its linkage to Trading
- Mutual Funds - Concept, Objective, Types
- Stock Exchange - Meaning, Significance, Listing of Securities; Functions of Stock Exchange;

Unit II Banking and Insurance

- Banking Services - Meaning and Definition of Banks, Functions of Banks: Types of Deposits - Current, SB, FD, RD
- Types of Loans - CC, OD, Term loans, Retail loans (Home loan, Car loan, Education loan, Personal loan, Credit card)
- Types of Payment - Cheque, NEFT, RTGS, IMPS, Payment Wallets,
- Insurance: Meaning, Definition, Features, Principles, Functions, Types of Insurance; IRDA

Unit III Entrepreneurship

- Entrepreneurship : Meaning of Entrepreneur -Enterprise and Entrepreneurship
- Functions of an Entrepreneur - Types of Entrepreneurs -Characteristics of Entrepreneurs
- Process of setting up a business -
- Entrepreneurial Opportunities in Telangana State

Unit IV Internal and International Trade

- Internal Trade: Meaning of Trade - Types of Trade- Features of Internal Trade;
- The distribution chain - Producers- Wholesalers- Retailers- Consumers; Types of Retail Trade
- International Trade -Meaning - Importance - Scope - Benefits of International Trade;

Unit V Principles and Functions of Management

- Principles of Management - Meaning and Definitions of Management, Objectives of Management,
- Functions of Management - Planning: Organising Staffing- Direction: Controlling

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- 1.1. What is Physics?
- 1.4 Fundamental forces in nature

CHAPTER –II: UNITS AND MEASUREMENTS

- 2.1 Introduction
- 2.2 The International system of units
- 2.3 Measurement of length
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- 2.8 Dimensions of physical quantities
- 2.9 Dimensional formulae and dimensional equations
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- 3.1 Introduction
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- 5.7 Conservation of momentum
- 5.8 Equilibrium of a particle
- 5.9 Common forces in mechanics
- 5.10 Circular motion
- 5.11 Solving problems in mechanics

CHAPTER – VI: WORK, ENERGY AND POWER

- 6.1 Introduction
- 6.2 Notions of work and kinetic energy: The work-energy theorem
- 6.3 Work
- 6.4 Kinetic Energy
- 6.5 Work done by a variable force
- 6.6 The work-energy theorem for a variable force.
- 6.7 The concept of potential energy
- 6.8 The conservation of mechanical energy
- 6.9 The potential energy of a spring
- 6.10 Various forms of energy: the law of conservation of energy
- 6.11 Power
- 6.12 Collisions

CHAPTER-VII: SYSTEM OF PARTICLES AND ROTATIONAL MOTION

- 7.1 Introduction
- 7.2 Centre of mass. Centre of gravity
- 7.3 Motion of Centre of mass
- 7.4 Linear momentum of a system of particles
- 7.5 Vector product of two vectors
- 7.6 Angular velocity and its relation with linear velocity
- 7.7 Torque and angular momentum
- 7.8 Equilibrium of a rigid body
- 7.9 Moment of inertia

- 7.11 Dynamics of rotational motion about a fixed axis.
- 7.12 Angular momentum in case of rotations about a fixed axis.
- 7.13 Rolling motion

Chapter VIII: OSCILLATIONS

- 8.1 Introduction
- 8.2 Periodic and oscillatory motions
- 8.3 Simple Harmonic motions
- 8.4 Simple Harmonic motion and uniform circular motion
- 8.5 Velocity and acceleration in simple harmonic motion
- 8.6 Force law for simple harmonic motion
- 8.7 Energy in simple harmonic motion
- 8.8 Some systems executing simple harmonic motion
- 8.9 Damped simple harmonic motion
- 8.10 Forced oscillations and resonance

CHAPTER –IX: GRAVITATION

- 9.1 Introduction
- 9.3 Universal law of gravitation
- 9.6 Acceleration due to gravity below and above the surface of earth
- 9.7 Gravitational Potential energy
- 9.8 Escape Speed
- 9.9 Earth Satellite
- 9.10 Energy of an orbiting satellite
- 9.11 Geo Stationary and Polar Satellites
- 9.12 Weightlessness

CHAPTER –X: MECHANICAL PROPERTIES OF SOLIDS

- 10.1 Introduction
- 10.2 Elastic behaviour of solids
- 10.3 Stress and Strain
- 10.4 Hooke's Law
- 10.5 Stress-Strain curve
- 10.6 Elastic Moduli
 - 10.6.1 Young's Modulus
 - 10.6.4 Bulk Modulus

CHAPTER –XI: MECHANICAL PROPERTIES OF FLUIDS

- 11.1 Introduction
- 11.2 Pressure
- 11.3 Streamline Flow
- 11.4 Bernoulli's Principle
- 11.5 Viscosity
- 11.6 Renolds Number
- 11.7 Surface Tension

CHAPTER –XII: THERMAL PROPERTIES OF MATTER

- 12.1 Introduction
- 12.2 Temperature and Heat
- 12.3 Measurement of Temperature
- 12.4 Ideal Gas Equation and Absolute Temperature
- 12.5 Thermal Expansion
- 12.6 Specific Heat Capacity
- 12.7 Calorimetry
- 12.8 Change of State
- 12.9.4 Blackbody Radiation
- 12.9.5 Green House Effect
- 12.10 Newton's Law of Cooling

CHAPTER –XIII: THERMODYNAMICS

- 13.1 Introduction
- 13.2 Thermal equilibrium
- 13.3 Zeroth law of thermodynamics
- 13.4 Heat, internal energy and work
- 13.5 First law of thermodynamics
- 13.6 Specific heat capacity
- 13.7 Thermodynamic state variables and equation of state
- 13.8 Thermodynamic Process
- 13.11 Second law of thermodynamics
- 13.12 Reversible and irreversible processes

CHAPTER – XIV: KINETIC THEORY

- 14.1 Introduction
- 14.2 Molecular nature of matter
- 14.3 Behaviour of gases
- 14.4 Kinetic theory of an ideal gas
- 14.5 Laws of equipartition of energy
- 14.6 Specific heat capacity
- 14.7 Mean free path

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INTERMEDIATE 1st YEAR PHYSICS PRACTICALS SYLLABUS

1. Vernier caliper
2. Screw gauge
3. Simple pendulum
4. Parallelogram law of forces
5. Force constant of a spring
6. Boyle's law
7. Specific heat of a solid

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INTERMEDIATE 1st YEAR FRENCH SYLLABUS

Prose

- **École de français, Paris: Au secrétariat**
- **Autour de l'école**
- **La vie quotidienne**
- **Une randonnée**

Poetry

- **La Semaine**
- **À Paris**
- **Les quatre saisons**

Lexique

- **Se présenter**
- **Présenter quelqu'un**
- **Les Nationalités**
- **Les Professions**
- **Les questions/ réponses**
- **Au téléphone : dire au revoir**
- **S'orienter**
- **Rédiger un emploi du temps**
- **Communiquer en classe**
- **Fixer un rendez-vous au téléphone**
- **Fixer l'heure, l'endroit, pour une réunion**
- **Parler des prix**
- **Dire l'heure**
- **Faire les projets pour la soirée**
- **Demander/Indiquer le chemin**
- **Demander la direction**
- **Donner les indications**
- **Le Corps**

Culture/ Civilisation

- **La France**
- **Papiers d'identité**
- **L'école, Les études**
- **Les différentes matières**
- **Les jours, la semaine**
- **Paris**
- **Versailles**
- **Le billet de bateau-mouche**
- **La tour Eiffel**
- **La SNCF**
- **Le Calendrier**
- **Le mois, l'année**
- **Les Parfums**
- **Les Fromages, Les Vins**
- **Les Saisons**
- **Les Fêtes**
- **La Météo**
- **La Bretagne, La Bourgogne**
- **La Provence, Cote d'Azur**

GRAMMAIRE

- **L'alphabet**
- **Les Chiffres 0 à 50**
- **L'article défini, indéfini**
- **Les présentateurs : C'est/ Ce sont**
- **Quelques verbes**
- **Pronom tonique**
- **Les Prépositions**
- **Les Pluriels**
- **L'article contracte**
- **Le présentateur « il y a »**
- **Quelques verbes**
- **Les chiffres de 50 à l' infini**
- **La négation**
- **Le pronom 'on'**
- **Les présentateurs « voici, voilà »**
- **Le pronom tonique**
- **Le Futur proche**
- **L'interrogation**
- **Les infinitifs**

- **La question négative**
- **Quelques verbes**
- **L'impératif (Unité 1 Leçon 4)**
- **Quelques verbes (Unité 1 Leçon 4)**

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INTERMEDIATE 2nd YEAR FRENCH SYLLABUS

Detailed Syllabus

(Unité 2 Leçon 1 à Unité 2 Leçon 4)

70% of the Regular Syllabus

Prose

- **Préparatifs d'un voyage**
- **À Lausanne**
- **Un dimanche à la montagne**
- **Il était un fois**

Poetry

- **Pour toi mon amour**
- **Expressions Québécoises**
- **Une chanson pomme**
- **Mon pays**

Lexique

- **Donner des informations personnelles**
- **Exprimer des faits futurs**
- **Le voyage**
- **Vocabulaire de la gare et du train**
- **Exprimer l'ignorance**
- **Exprimer la certitude**
- **Indiquer les éléments du passé**
- **Raconter un événement**
- **Ecrire une lettre personnelle**
- **Types de logement**
- **Raconter une journée**
- **S'informer sur des prix, sur la taille**
- **L'échange**
- **Vêtements, équipements de ski**
- **Techniques de ski**

- Parler d'autrefois
- Décrire des habitudes présentes et passées
- Inviter quelqu'un
- Accepter, refuser les invitations
- Parler de l'avenir proche ou lointain
- Donner un conseil
- La Famille

Culture/ Civilisation

- Billets de train
- La Suisse
- Plurilinguisme et multi culturalité de la Suisse
- Passer la frontière
- Les petites annonces
- Les Chiffres Suisses
- Le Chalet
- Le Lac Léman
- Les sports d'hiver
- Le Gruyère
- Les montagnes
- Quelques organisations internationales à Genève
- Le château de Chillon

GRAMMAIRE

- Le Passé Récent
- Le Futur
- Les adjectifs possessifs
- Les adjectifs démonstratifs
- Quelques verbes
- La Comparaison
- Il faut
- Le Passé Composé
- Les nombres ordinaux
- Les compléments de temps
- Les formes de négation
- Quelques verbes
- Le superlatif
- Le pronom interrogatif
- Le Passé Composé avec la négation, l'interrogation
- Les connecteurs de temps
- Quelques verbes
- L'imparfait

- **Imparfait et Passé Composé**
- **Les pronoms relatifs**
- **Les adverbes**

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INTERMEDIATE 1st YEAR GEOGRAPHY SYLLABUS

PartA:	Fundamentals of Physical Geography
Unit1:	Geography as a Discipline Geography as an integrating discipline, Branches of Geography: Physical Geography and Human Geography
Unit2:	The Earth- : Interior of the earth; Wegener's continental drift theory and plate tectonics Earthquakes and volcanoes: causes, types and effects
Unit3:	Landforms Rocks: major types of rocks and their characteristics Geomorphic processes: weathering; mass wasting; erosion and deposition;
Unit4:	Climate: Elements of weather and climate; Atmosphere - composition and structure; Insolation: heating and cooling of atmosphere (conduction, convection, terrestrial radiation and advection); temperature- factors controlling temperature; distribution of temperature- horizontal and vertical; inversion of temperature. Pressure-factors & distribution; pressure belts; winds-planetary, seasonal and local;
Unit5:	Oceans: Basics of Oceanography <ul style="list-style-type: none">□ Oceans-distribution of temperature and salinity□ Movements of ocean water-waves, tides and currents; submarine reliefs□ Ocean pollution
Unit 6:	Life on the Earth <ul style="list-style-type: none">□ Biosphere-importance of plants and other organisms;□ Ecosystem and ecological balance; biodiversity and conservation;
Unit 7	Hazards and Disasters: Causes, Consequences and Management Floods, Cloudbursts; Droughts: Tsunami Cyclones: features and impact.
Part B:	Practical Work
Unit1:	Fundamentals of Maps <ul style="list-style-type: none">□ Geospatial data, Concept of Geographical data matrix; Point, line, area data□ Maps- types; scales-types; construction of simple linear scale, measuring distance; finding direction and use of symbols
Unit2:	Topographic and Weather Maps <ul style="list-style-type: none">□ Study of topographic maps (1:50,000 or 1:25,000 Survey of India maps); contour cross section and identification of landforms - slopes, hills, valleys, waterfall, cliffs and distribution of settlements□ Use of weather instruments: thermometer, wet and dry-bulb thermometer, barometer, wind vane and rain gauge

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INTERMEDIATE 2nd YEAR SYLLABUS

Fundamentals of Human and Economic Geography

UNIT 1: Human Geography

Meaning, Nature, scope and relevance of human Geography;
Man-Environment relationships;

UNIT 2: World Population

Distribution, density of population, Growth of population in the world.
Factors affecting / influencing distribution of population,

UNIT 3: Economic Geography

Economic geography: Definition, Scope and Significance;
Sectors of economic activity: Concepts, changing trends.

Primary Activities: Concepts, changing trends.

Food gathering, pastoral, mining and subsistence agriculture.

Secondary Activities: concepts. Manufacturing industries: Locational factors, types -
distribution and production –

Agro based: Textile (cotton), Mineral based (Iron and steel): Petro-chemical.

Mineral resources: Iron ore, Bauxite, Power resources: Coal, petroleum and; Non-
conventional sources of energy.

Tertiary Economic activities: Concepts, people engaged in the tertiary activities with some
examples

Quaternary Economic activities: Concepts, people engaged in the quaternary activities with
some examples

UNIT 4. World Transportation and Trade

Relative significance of different means of transport- Land transport, Railways –
transcontinental railways, Air ways and Water ways.

World oceanic routes; important inland waterways and important canals;

International trade.

UNIT 5: Environment and Resources

Resources: Definition, Classification - Resource depletion.

Environment: Meaning, definition and components;

Environmental conservation and management; sustainable development.

UNIT 6: Human Settlements

Settlement types - rural and urban.

Part – B: Geography of India

UNIT 7 - Physiography:

Locational characteristics; Physical setting, Physiographic divisions;
Drainage system: The Himalayan and Peninsular System

UNIT 8 - Climate:

Origin of monsoon, climatic regions in India; distribution of temperature and rainfall.
Soils: types and distribution, **Vegetation:** types and distribution.

UNIT 9 - Population: Population: Size, Growth, Distribution and Density from 1901-2011;

Trends of Urbanization, population problems.

Migration: International, National, causes and consequences.

Human Development: Introduction and Regional Pattern

UNIT 10 - Resources:

Mineral and Energy Resource Base: distribution and production

Minerals –Iron ore, Manganese,

Power resources- Coal, Petroleum and Non-conventional sources of energy (Solar, Wind and Biogas), Conservation of Resources.

UNIT 11 - Land Resources:

Agriculture: General Land Use, Land Use Classification

Distribution and production of Major Crops- Wheat, rice, sugarcane, cotton, castor and ground nut, Coffee and tea – their distribution, production

UNIT 12 - Water Resources:

Irrigation and Power: types of irrigation. Wells, canals, and tanks;

Major multipurpose projects: Bhakra Nangal, Nagarjuna Sagar, Rain Water Harvesting and Watershed Management.

UNIT 13 - Industries:

Location factors, growth, distribution, and trade

Pharmaceuticals, and Knowledge based industries (IT). Globalization and Economic Development.

UNIT 14 - Transport and Trade:

Means of transport; roadways, railways, airways, and water ways, Major ports of India,

Part C- Telangana

UNIT 15 – Telangana: Administrative regions; physiography and Drainage:

UNIT 16 – Climate: Distribution of climate, temperature and rainfall.

Soils: types, distribution, characteristics; **Vegetation:** types and distribution.

UNIT 17 - Population:

Size, Growth, Distribution and Density from 1961-2011; demographic characteristics: literacy, sex ratio; Rural and Urban populations.

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INTERMEDIATE 2nd YEAR PRACTICAL SYLLABUS

Fundamentals of Human and Economic Geography

Representation of Data

- 1. Diagrammatic representation of geographical data:** types and their uses;
One-dimensional: Line diagram, bar diagrams- simple bar, compound bar, multiple bar diagram; **Two-dimensional:** Pie diagram;
- 2. Distribution maps:** Dot, Isopleth maps-uses, merits and demerits, Choropleth, Chorochromatic and Choroschematic Isotherm, Isobars and Isohyets.
- 3. Sources of Data;** Tabulation and Classification of Data; Frequency Distribution, Histogram,
- 4. Measures of Central Tendency:** Mean Median and Mode. Mean Deviation and Standard Deviation,
- 5. Introduction to GIS:** Introduction Geographical Information System (GIS)

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INTERMEDIATE FIRST YEAR HINDI (SECOND LANGUAGE) SYLLABUS

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INTERMEDIATE 1st YEAR HISTORY SYLLABUS

Chapter-1: History, Geography and Sources

- 1.1 History and its Importance
- 1.2 Geographical Features of India
- 1.3 Influence of Geography on Indian History
- 1.4 Sources of History
- 1.5 Archaeological Sources
- 1.6 Literary Sources: A. Indigenous Sources

Chapter-2: Indus Valley Civilization & Vedic Culture

- 2.1 Indus Valley Civilization
- 2.2 Town Planning
- 2.3 Political System
- 2.4 Social Conditions
- 2.5 Economic Conditions
- 2.6 Trade and Commerce
- 2.7 Technology and Crafts
- 2.8 Religious Conditions
- 2.9 Decline of the Civilization
- 2.10 Vedic Culture
- 2.11 Early Vedic Period
- 2.12 Later Vedic Period

Chapter-3: Socio-Religious Movements in Ancient India

- 3.1 Origin of new religions in India
- 3.2 Jainism
- 3.3 Contribution of Jainism to the Indian culture
- 3.4 Buddhism
- 3.5 Teachings of Buddha
- 3.6. Contribution of Buddhism to the Indian Culture
- 3.7. Decline of Buddhism

Chapter-4: Origin of State and Mauryan Empire

- 4.1 Mahajanapadas
- 4.2 Emergence of Magadha
- 4.3 Alexander's Invasion
- 4.4 Mauryan Empire
- 4.5 Ashoka
- 4.6 Mauryan Administrative System
- 4.7 Economics, Social and Cultural Conditions

Chapter-5: Imperial Guptas

- 5.1 Political History
- 5.2 Administration
- 5.3 Decline of the Guptas
- 5.4 Harshavardhana[606-647 C.E.]

Chapter-6: Age of Rajputs

- 6.1 The Origin of Rajputs
- 6.2 Political History
- 6.3 The Paramaras
- 6.4 Rajput Culture
- 6.5 Arab Conquest of Sindh

Chapter-7: South Indian Kingdoms

- 7.1 The Pallavas
- 7.2 Administration of Pallavas
- 7.4 The Cholas (850-1280 C.E.)

Chapter-8: The Age of Delhi Sultanate

- 8.1 Brief Political History
- 8.2 Important Sultans and their Achievements
- 8.3 Administration
- 8.4 Social and Economic Conditions
- 8.5 Indo-Islamic Culture
- 8.6 Bhakti and Sufi Movements

Chapter-9: Age of Mughals

- 9.1 Babur (1526-1530 C.E.)
- 9.2 Humayun (1530-1540 C.E. and 1555-1556 C.E.)
- 9.3 Sur Dynasty (1540-1555 C.E.)
- 9.4 Imperial Mughals
- 9.5 Mughal Administration
- 9.6 cultural Development under the Mughals

Chapter-10: Marathas and Rise of Regional Powers

- 10.1 Introduction
- 10.2 Factors led to the Rise of the Maratha Power
- 10.3 Shivaji (1627-1680 CE)
- 10.4 Successors of Shivaji
- 10.5 Peshwas
- 10.6 Third Battle of Panipat(1761)

Chapter-11: Advent of Europeans

- 11.1 Early European settlements in India
- 11.2 Advent of European trading companies in India
- 11.3 Anglo-French Rivalry
- 11.4 Establishment of British Supremacy-Robert Clive
- 11.5 Anglo-Mysore Wars

Chapter-12: Early uprisings against British Rule

- 12.1 Tribal, Civil Rebellions and Peasant Revolts
- 12.2 Revolt of 1857
- 12.3 Queen Victoria's proclamation (1858)

Chapter-13: Socio-Religious Reform Movements in India

- 13.1 The causes of the Indian Renaissance
- 13.2 Brahma Samaj
- 13.3 Raja Ram Mohan Roy
- 13.4 KandukuriVeereshlingam
- 13.5 Prarthana Samaj
- 13.6 Swami Dayananda Saraswathi
- 13.7 Arya Samaj
- 13.8 Rama Krishna Paramahamsa (1833-1886)
- 13.9 Swami Vivekananda
- 13.10 Rama Krishna Mission
- 13.11 Theosophical Society and Mrs. Annie Besant
- 13.12 Satya ShodakSamaj and JotibaPhule
- 13.13 Narayana guru
- 13.14 Periyar E.V. RamaswamyNaicker
- 13.15 DR B.R. Ambedkar
- 13.16 The Deoband Movement
- 13.17 Sir Sayyid Ahmed Khan and Aligarh Movement
- 13.18 Reform Movements among the Parsis
- 13.19 Results of the Reform Movement

Chapter-14: National Movement – Early Phase

- 14.1 Growth of Nationalism
- 14.2 Establishment of Early Associations
- 14.3 The Moderates (1885-1905) and their principles
- 14.4 Extremist phase (1905- 1914)
- 14.5 Vande Mataram Movement- Swadeshi Movement (1905-1911)
- 14.6 The Establishment of Muslim League (1906)
- 14.7 Minto-Morley Reforms(1909)
- 14.8 Revolutionary Nationalism – The first Phase (1897-1915)
- 14.9 Home Rule Movement (1916-1918 CE)

Chapter-15 National Movement – Later Phase

- 15.1 Gandhian Era
- 15.2 Early Movements
- 15.3 Khilafat Movement (1919)
- 15.6 Civil Disobedience Movement
- 15.7 Gandhi-Irwin Pact (1931)
- 15.8 Government of India Act (1935)
- 15.9 Quit India Movement
- 15.10 Cabinet Mission

TELANGANA STATE BOARD OF INTERMEDIATE EDUCATION, HYDERABAD

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INTERMEDIATE 2nd YEAR HISTORY SYLLABUS

Unit-I GEOGRAPHY - SOURCES PRE-HISTORY

- 1.1 Geographical Features of Telangana
- 1.2 Brief Survey of Sources
- 1.3 Pre and Photo History

Unit-II Age of Satavahanas

- 2.1 Pre Satavahanas
- 2.2 Sources
- 2.3 Early Satavahanas
- 2.4 Later Satavahanas
- 2.5 Administration
- 2.6 Economy
- 2.7 Society
- 2.8 Religion

Unit-III Post Satavahana Period

- 3.1 Political History - Ikashvakus
- 3.2 Vakatakas
- 3.3 Vishnukunds
- 3.4 Chalukyan Age
- 3.5 Administration
- 3.8 Religion

Unit-IV Age of Kaktatiyas

- 4.1 Sources –
- 4.2 Brief Political History
- 4.3 Administration
- 4.4 Society

- 4.5 Economy
- 4.6 Religion
- 4.7 Literature
- 4.8 Art and Architecture

Unit-V QutubShahis

- 5.1 Sources
- 5.2 Brief Political History
- 5.3 Administration
- 5.4 Socio Culture Conditions
- 5.5 Agriculture and Irrigation
- 5.6 Trade and Commerce
- 5.7 Development of Telugu Literature
- 5.8 Art and Architecture

Unit-VI AsafJahis

- 6.1 Nizam-ul-Mulk (1724-1748)
- 6.2 Nizam Ali Khan (1762-1803)
- 6.3 Sikandar Jah (1803-1829)
- 6.4 Nasir-ud-Daula (1829-1857)
- 6.5 Afzal-ul-Daula (1857-1869)
- 6.6 Reforms of salarjung (1853-1883)
- 6.7 Mir Mahaboob Ali Khan (1869-1911CE)
- 6.8 Mir Osman Ali Khan (1911-1948CE)

Unit-VII Socio, Cultural and Political awakening in Telanagana

- 7.1 Role of News Papers
- 7.2 Library Movement
- 7.3 Arya Samaj
- 7.4 NizamRashtra Andhra Jana Sangam
- 7.5 Andhra Mahasabha
- 7.6 Andhra Mahila Sabha
- 7.7 Adi Hindu and Dalit Movements
- 7.9 The Majlis-e-Ittehad-ul-Muslimeen
- 7.10 Political Awareness

Unit-VIII Tribal and Peasant Movements in Telangana

- 8.1 Land Tenure Systems in Nizam State
- 8.2 Tribal revolts
- 8.3 Telangana peasant Armed Struggle

Unit-IX Freedom Movement in Hyderabad State

- 9.1 1857 Revolt in Hyderabad
- 9.2 National awakening in Hyderabad
- 9.3 Hyderabad State Congress.
- 9.4 Vandematharam Movement

Unit-X Separate Telangana State Movement – Early Phase

- 10.1 1952 Mulki Movement
- 10.2 Formation of Linguistic State 1956
- 10.3 Jai Telangana Movement
- 10.4 Telangana PrajaSamithi

Unit-XI Separate Telangana State Movement – Later Phase

- 11.1 Post 1969 Movement
- 11.2 Later Phase of Telangana Movement
- 11.3 Emergency Telangana RashtraSamithi
- 11.4 Indefinite strike of KCR
- 11.5 Shri Krishna Committee Report
- 11.6 Telangana Joint Action Committee (TJAC)
- 11.7 Delith, Adivasi, Minority Movements
- 11.8 Non-Cooperation Movements

Unit-XII Fairs and Festivals of Telangana

- 12.1 Important Festivals
- 12.2 Folk Tribal Festivals
- 12.3 Popular Jataras

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INTERMEDIATE 1st YEAR KANADA SYLLABUS

*** ಕಾವ್ಯ ಭಾಗ (Poetry Section)**

1. ದುರ್ಯೋಧನ ವಿಲಾಪ
2. ವಚನಗಳು:- (ಅ) ಅಲ್ಲಮಪ್ರಭು , (ಆ) ಅಕ್ಕಮಹಾದೇವಿ
3. ಹಲುಬಿದಳೆ ಕಲ್ಪರಂ ಕರಗುವಂತೆ
4. ತಲ್ಲಣಿಸದಿರು ಕಂಡ್ಯ ತಾಳುಮನವೇ
5. ಅಖಂಡ ಕರ್ನಾಟಕ
6. ಎಂದಿಗೆ
7. ಮಗು ಮತ್ತು ಹಣ್ಣುಗಳು
8. ನಾ ಬರೀ ಭ್ರೂಣವಲ್ಲ
9. ಸುನಾಮಿ ಹಾಡು
10. ದೇವರಿಗೊಂದು ಅರ್ಜಿ

ಗದ್ಯಭಾಗ (Prose Section)

1. ಗಾಂಧಿ
2. ಜೋತಿಷ್ಯ ಅರ್ಥಪೂರ್ಣವೋ ಅರ್ಥರಹಿತವೋ
3. ಶಾಸ್ತ್ರೀಮಾಸ್ತರ ಮತ್ತು ಮಕ್ಕಳು
4. ನಿರಾಕರಣೆ
5. ಚತುರನ ಚಾತುರ್ಯ

ನಾಟಕ (Play)

1. ಬೋಳೇಶಂಕರ

ವ್ಯಾಕರಣ(Grammar)

1. ಸಂಧಿಗಳು
2. ಸಮಾಸಗಳು

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INTERMEDIATE 2nd YEAR KANADA SYLLABUS

ಕಾವ್ಯಭಾಗ (Poetry Section)

1. ಕದಡಿದ ಸಲಿಲಂ ತಿಳಿವಂದದೆ
2. ವಚನಗಳು (ಬಸವಣ್ಣ)
3. ಇನ್ನು ಹುಟ್ಟಿದೆ ಇರಲಿ ನಾರಿಯರೆನ್ನವೊಲು
4. ಜಾಲಿಯ ಮರದಂತೆ
5. ಬೆಳಗುಜಾವ
6. ಮುಂಬೈ ಜಾತಕ
7. ಒಂದು ಹೂ ಹೆಚ್ಚಿಗೆ ಇಡತೀನಿ

ಗದ್ಯಭಾಗ (Prose Section)

1. ಮುಟ್ಟಿಸಿಕೊಂಡವನು
2. ಆಯ್ಕೆಯಿದೆ ನಮ್ಮ ಕೈಯಲ್ಲಿ
3. ಧನಿಗಳ ಬೆಳ್ಳಿ ಲೋಟ
4. ಬದುಕನ್ನು ಪ್ರೀತಿಸಿದ ಸಂತ
5. ತಿರುಳ್ಗನ್ನಡದ ಬೆಳ್ಳುಡಿ

ದೀರ್ಘಗದ್ಯ

1. ಕೃಷ್ಣೇಗೌಡರ ಆನೆ

ಛಂದಸ್ಸು:-- 1. ಗಣಗಳು 2. ವೃತ್ತಗಳು 3. ಪಟ್ಟದಿಗಳು

ಅಲಂಕಾರ :--1. ಉಪಮಾಲಂಕಾರ 2. ರೂಪಕಾಲಂಕಾರ 3. ದೃಷ್ಟಾಂತಾಲಂಕಾರ

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INTERMEDIATE 1st YEAR MATHEMATICS(IA) SYLLABUS

S.NO	CHAPTER	TOPICS	no of periods	REMARKS
1	Functions	1.0: Ordered Pairs 1.1: Types of Functions 1.3: Real valued functions (Domain, Range and Inverse)	8	
2	Mathematical Induction	Deleted		
3	Matrices	3.1: Types of Matrices 3.2: Scalar multiple of a Matrix and multiplication of matrices 3.3: Transpose of a matrix 3.4.1 to 3.4.7 : Determinants 3.5: Adjoint and inverse of a matrix 3.7:solutions of simultaneous linear equations Cramer's Rule Matrix inversion method	14	
4	Addition of Vectors	complete chapter	18	
5	Product of vectors	Introduction 5.1: Scalar or Dot product of two vectors -Geometrical 5.2: Properties of dot product 5.3: Expression for scalar (Dot) Product, Angle between Vectors 5.4 : Geometrical Vector methods 5.5: Vector Equation of plane - normal form 5.6: Angle between two planes 5.7: Vector Product (cross product) of two vectors and properties 5.8: Vector product in (i, j, k) system 5.9: Vector Areas 5.10: Scalar Triple product	20	

6	Trigonometric Ratios upto Transformations	Complete chapter	20	
7	Trigonometric Equations	Deleted		
8	Inverse Trigonometric Function	Deleted		
9	Hyperbolic functions	9.1 Definition of Hyperbolic function, Graphs 9.3: Addition formulas of Hyperbolic functions	3	
10	Properties of Triangles	Complete chapter	16	

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INTERMEDIATE 1st YEAR MATHEMATICS (IB) SYLLABUS

S.NO	CHAPTER	TOPICS	No of periods	REMARKS
1	Locus	Complete chapter	8	
2	Transformation of Axes	Complete chapter	8	
3	Straight Line	Complete chapter	19	
4	Pair of straight lines	Introduction 4.1: Equation of a pair of lines passing through the origin, Angle between a pair of lines 4.2: Condition for perpendicular and coincident lines, bisectors of angles 4.4: Pair of lines – Second degree general equation 4.6: Homogenising a second degree equation with a first degree equation in x and y Exercise 4(b) : Deleted	12	
5	Three Dimensional Coordinates	Complete chapter	4	
6	Direction Cosines and Direction Ratios	Complete chapter	10	
7	Plane	Introduction Exercise 7(a) Section I and related examples	4	
8	Limits and Continuity	Introduction 8.1: Intervals and neighbourhoods 8.2: Limits 8.3: Standard limits	9	

9	Differentiation	Introduction 9.1: Derivative of a Function 9.2: Elementary properties 9.3: Trigonometric, Inverse trigonometric, Hyperbolic, Inverse Hyperbolic Functions – Derivatives Exercise 9© Section III Deleted Exercise 9(d) Deleted	16	
10	10. Applications of Derivatives	Introduction 10.1: Errors and Approximations 10.2: Geometrical interpretation of the derivative 10.3: Equation of tangent and normal, Sub tangent, Subnormal 10.5: Angle between two curves and condition for orthogonality of curves 10.9: Maxima and Minima	15	

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INTERMEDIATE 2nd YEAR MATHEMATICS (IIA) SYLLABUS

S.NO	CHAPTER	TOPICS	no of periods	REMARKS
1	Complex Numbers	Introduction 1.1: Complex number as an Ordered pair of real numbers Fundamental operations 1.2: Representation of Complex number in the form $a+ib$	6	
2	De Moivre's Theorem	Upto exercise 2(b) section-I and related examples	10	
3	Quadratic Expressions	3.1 Quadratic expressions, equations in one variable 3.2 Sign of quadratic expressions, change of signs and maximum, minimum values	8	
4	Theory of Equations	Complete Chapter	21	
5	Permutations and Combinations	5.1 Fundamental Principles of Counting - Linear and Circular permutations 5.2: Permutation of n dissimilar things r at a time 5.6: Combinations Exercise 5(e) Section I and II Related Problems Exercise 5(e) Section III Deleted	10	
6	Binomial Theorem	Introduction Exercise 6(a) Section I and Section II up to 4th problem and related examples Exercise 6(b) Section I and related examples Exercise 6(c) Deleted	6	

7	Partial Fractions	Upto 7(c) exercise.	7	
8	Measures of Dispersion	Introduction 8.1: Range 8.2.1: Mean Deviation for ungrouped data Exercise 8(a) Section I (problems 1 and 2)	4	
9	Probability	9.1 Random experiments and events 9.2 Classical definition of probability, axiomatic approach and addition theorem on probability 9.3.1 Independent and dependent events, conditional probability, multiplication theorem and problems and related examples	18	
10	Random Variables and Probability Distribution	Complete Chapter	11	

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INTERMEDIATE 2nd YEAR MATHEMATICS (IIB)SYLLABUS

S.NO	CHAPTER	TOPICS	no of periods	REMARKS
1	Circles	Complete chapter	34	
2	System of Circles	Complete chapter	12	
3	Parabola	Introduction 3.1: Conic Sections, Standard forms and related problems	8	
4	Ellipse	Introduction 4.1: Equation of Ellipse in standard form, Parametric equation	6	
5	Hyperbola	Introduction Exercise 5(a) Section I and related examples	4	
6	Integration	Introduction 6.1: Integration as the inverse process of differentiation, standard forms and properties of integrals 6.2: Method of substitution (6.2.1 to 6.2.19) and related problems	16	
7	Definite Integrals	Introduction Exercise 7(a) Exercise 7(b) section I and III (section II Deleted)	18	
8	Differential equations	Introduction 8.1: Formation of differential equation – Degree and order of an ordinary differential equation 8.2: Solving of differential equations 8.2(a): Variable separable method Exercise	9	
	TOTAL		45	

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INTERMEDIATE 1st YEAR POLITICAL SCIENCE (CIVICS) SYLLABUS

Unit – I : Introduction Of Political Science

- 1.1 Meaning and Definition of Political Science
- 1.2 Nature of Political Science
- 1.3 Scope of Political Science
- 1.4 Significance of Political Science

Unit – II: State

- 2.1 Meaning and Definitions of State
- 2.2 Essential Elements of the State
- 2.3 Relation between the State and others Institutions.
 - a. State and Society,
 - b. State and Government,
 - c.State and Associations
- 2.4. Sovereignty; Meaning, Definitions, Characteristics and aspects of sovereignty.

Unit – III: Nation – Nationality and Nationalism

- 3.1 Nation
- 3.2 Nationality
- 3.3 Nationalism

Unit – IV: Political Concepts

- 4.1. Law
 - a. Meaning and definitions of Law,
 - b. Sources of Law,
 - c. Classification of Law,
 - d. Rule of Law
- 4.2. Liberty
 - a. Meaning and Definitions of Liberty,
 - b. Characteristics of Liberty,
 - c. Types of Liberty,
 - d. Safeguards of Liberty

4.3. Equality

- a. Meaning of Equality,
- b. Essential Features of Equality,
- c. Types of Equality

4.4. Justice

- a. Introduction and Definitions of Justice,
- b. Major concepts of Justice
- c. Types of Justice

Unit-V: Important Political Ideologies

- 5.4 Communism and its basic features
- 5.5 Gandhism and its basic features

Unit – VI : Rights And Duties

6.1. Rights

- a. Meaning and Definitions
- b. Important features of Rights
- c. Classification of Rights
- d. Safeguards of Rights
- e. Human Rights

6.2. Duties

- a. Meaning and Definitions
- b. Types of Duties

6.3. Relationship between Rights and Duties

Unit – VII: Citizenship

No Deletion

Unit – VIII : Democracy

- 8.1. Meaning and Definition
- 8.2. Features of Democracy
- 8.3. Types of Democracy
- 8.4. The essential conditions for the success of Democracy
- 8.5. The Role of Public opinion in Democracy

Unit – IX: Secularism

- 9.1 Meaning and Definitions
- 9.2 Origin of Secularism
- 9.3 Important features of Secularism
- 9.4 Secular State
- 9.5 Theocratic State
- 9.6 Secularism in Indian Context

Unit – X : Constitution

- 10.1 Meaning and Definitions of Constitution
- 10.2 Historical background
- 10.3 Essential features of Constitution
- 10.4 Classification of Constitutions

Unit – XI : Organs Of Government

- 11.1 Theory of separation of powers
- 11.2 Legislature: Powers and Functions
- 11.3 Executive : Powers and Functions
- 11.4 Judiciary : Powers and Functions

Unit – XII: Forms of Government

No Deletion

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INTERMEDIATE 2nd YEAR POLITICAL SCIENCE (CIVICS) SYLLABUS

Unit – I : Indian Constitution – Historical Background

1. Indian National Movement – Different Phases of National Movement
2. The Government of India Acts – 1909, 1919, 1935 & 1947
3. Constituent Assembly and Framing of Indian Constitution
4. Philosophy and Basic Features of Indian Constitution

Unit – II: Fundamental Rights and Directive Principles of State Policy

1. Fundamental Rights
2. Directive Principles of State Policy
3. Fundamental Duties

Unit – III: Union Government

1. The President of India
2. The Vice President of India
3. The Prime Minister of India
4. Union Council of Ministers
5. Parliament of India
6. Supreme Court of India

Unit – IV : State Government

1. The Governor
2. The Chief Minister
3. Council of Ministers in the State
4. Legislative Assembly
5. Legislative Council
6. High Court

Unit – V : Centre State Relations

1. Legislative Relations, Administrative Relations, Financial Relations
2. NITI Aayog

Unit – VI : Local Government

1. Grass root Democracy : 73rd Amendment, Grass root Political Panchayat Raj Institutions
2. 74th Amendment : Urban Local Self Governments
3. Panchayat and Urban Local Bodies in Telangana

Unit – VII : Election System in India

1. Central Election Commission
2. Powers and Functions of Election Commission

Unit – VIII : Contemporary Issues in Indian Politics

1. Corruptions, Anty Corruptions Acts

Unit – IX : Emergence of Telangana State

Formation of Hyderabad State in 1948, Political Developments : (1948 to 1956) ; Gentlemen's Agreement; Emergence of Andhra Pradesh; Violation of Safeguards; Telangana Agitation-1969 – Telangana Praja Samithi (TPS); Reaction to Mulki Judgement; Telangana Movement : 2001 to 2014; Role of JAC's in Telangana Movement – Process of A.P Reorganisation Act, 2014.

Unit – X : Smart Governance

1. SMART Governance
2. Good Governance
3. Lokpal, Lokayuktha

Unit – XI : India and the World

1. Basic Features of India's Foreign Policy
2. India and Non-Aligned Movement
3. United Nations Organization (UNO)

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INTERMEDIATE 1st YEAR PUBLIC ADMINISTRATION SYLLABUS

Unit No	Chapter No	Remaining chapter titles
	1	Introduction
I	1.0	Introduction
	1.1	Meaning
	1.2	Definition of Public Administration
	1.3	Nature of Public Administration
	1.4	Scope of Public Administration
	1.5	Importance of Public Administration
	2	Principles of Organisation
II	2.0	Introduction
	2.1	Hierarchy
	2.2	Division of Work
	2.4	Coordination
	2.6	Centralisation and Decentralisation
	2.7	Line & Staff Agencies
	2.8	Planning
	3	Theories of Organisation
III	3.0	Introduction
	3.1	Classical Theory
	3.2	Scientific Management Theory-F.W.Taylor
	3.3	Bureaucratic Theory-Max Weber
	3.6	Socio-Psychological Theory-Abraham Maslow
	3.7	Ecological Theory-F.W.Riggs
	4	Personnel Administration
IV	4.0	Introduction
	4.1	Recruitment, Selection
	4.2	Training
	4.5	Out Sourcing
	5	Financial Administration
V	5.0	Introduction
	5.1	Meaning and Importance of Financial Administration
	5.2	Principles of Budget
	5.3	Preparation of Budget
	5.4	Enactment of Budget
	6	Control over Administration
VI	6.0	Introduction
	6.1	Legislative control over Administration
	6.3	Judicial control over Administration
	6.4	Citizen control over Administration
	7	Office Management in Government
VII	7.0	Introduction
	7.1	Importance of Office Management
	7.2	Office Accommodation and Layout
	8	Contemporary Development in Public Administration
VIII	8.0	Introduction
	8.1	Globalisation and Public Management
	8.3	Good Governance
	8.4	E-Governance

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INTERMEDIATE 2ND YEAR PUBLIC ADMINISTRATION SYLLABUS

S.No	Unit No	Chapter No	Deleted chapter title
1	I	4	Constitutional frame work
2	II	6	Central secretariat, cabinet secretariat, PMO
3	II	8	Working of Judiciary-structure and functions
4	III	10	Union Public Service Commission
5	IV	14	State secretariat and Directorate
6	V	18	Role Cooperatives and SHG's in development
7	VI	21	Social security and food security
8	VII	27	Public Private partnership

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INTERMEDIATE 1st YEAR SANSKRIT SYLLABUS

S.No.	Lesson	
पद्यभागः (Poetry)		
1.	भर्तृहरिसुभाषितानि	*1, *3, *4, *6, *7, *8, *9 and *11 to *20 Slokas
2.	रामो विग्रहवान् धर्मः	
5.	गानपरीक्षा	
6.	मातृगीतम्	
गद्यभागः (Prose)		
1.	दयालुः दानशीलः नागार्जुनः	
3.	टिट्टिभदम्पतीकथा	
4.	शरणागतरक्षणम्	
6.	महान् जीवशास्त्रज्ञो जगदीशचन्द्रबोसः	
उपवाचकम् (Non-Detailed)		
1.	उद्योगिनं पुरुषसिंहमुपैति लक्ष्मीः	
2.	भाग्यचक्रम्	
3.	किमस्ति पेटिकायाम्	
6.	विद्वान् कुलीनो न करोति गर्वम्	
संवित्परीक्षा		
	गतानुगतिको लोकः	
	परानुकारी गर्दभः	
	लुब्धः कर्षकः	
	हितोपदेशो मूर्खाय	
व्याकरणभागः (Grammar)		
1.	शब्दरूपाणि	
2.	धातुरूपाणि	
3.	सन्धयः	
अनुवादवाक्यानि (Translation Sentences)		
1 to 18 sentences		

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INTERMEDIATE 2nd YEAR SANSKRIT SYLLABUS

S.No.	Lesson	
पद्यभागः (Poetry)		
2.	विक्रमाङ्कस्य औदार्यम्	
3.	साधुवर्तनम्	*1, *5, *8 and *14
4.	गायत्रीनीतिगीतावलिः	*1, *5, *7 and *11
6.	नृसिंहाविर्भावः	
गद्यभागः (Prose)		
2.	भ्रातृवात्सल्यम्	
3.	सुहृद्भेदः	
5.	वृक्षरक्षिका पितामही	
6.	भारतभूषा वीरयोषा	
उपवाचकम् (Non-Detailed)		
1.	न्यासरक्षा	
3.	आनूरवम्	
व्याकरणभागः (Grammar)		
1.	पत्रलेखनम्	1, 3, 4
2.	सन्धयः	
3.	शब्दरूपाणि	
4.	समासाः	
5.	वाक्यशुद्धीकरणम्	1 to 15 sentences

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INTERMEDIATE 2nd YEAR ENGLISH SYLLABUS

MODULE / UNIT	Name of the Unit	Writer's Name	Retained Pages From ... to
Module : I Unit 1 Unit 3 Unit 4	Prose : Dancing in the Rain Short Story : The Boy Who Broke the Bank Comprehension and Composition : Study Skills – I : Section – A : Punctuation Section – B : Vocabulary – 4. One-word substitutes [Except a Part of it 34 – 40 (Page – 40 : First NINE Lines)] Section – C : Understanding Non-verbal Data [Except TABLES; TREE DIAGRAMS; FLOW CHARTS – From 51 – 57] Section – D : Understanding Advertisements Revision Test – I	Ajim Premji Ruskin Bond --- --- --- --- ---	1 – 12 17 – 24 25 – 33 40 – 47 48 – 51 58 – 62 63 – 66
Module : II Unit 5 Unit 6 Unit 7 Unit 8	Prose : Opportunities for Youth Poetry : The Magical Earth Short Story : Parige Composition : Letter Writing – Formal Letters [Except Informal Letters – From 103 – 108] Revision Test – II	Jawaharlal Nehru Gulzar Vattikota Alwar Swamy --- ---	67 – 79 80 – 84 85 – 93 94 – 102 109 – 113

Module : III			
Unit 9	Prose : To Sir with Love	E.R.Braithwaite	114 – 123
Unit 10	Poetry : Polonius' Advice to his Son	Shakespeare	124 – 129
Unit 11	Short Story : My Elder Brother	Prem Chand	130 – 137
Unit 12	Comprehension and Composition :		
	Section – A : Filling in forms	---	138 – 147
	Section – B : Resume / CV / Bio-data and Cover Letters	---	148 – 158
	Understanding Job Advertisements		
	Revision Test – III	---	159 – 163
Module : IV			
Unit 14	Poetry : Footprints on the Sand	Mary Stevenson	175 – 178
Unit 15	Short Story : The Awakening	Shashi Deshpande	179 – 187
Unit 16	Comprehension and Composition :		
	Section A – Dialogue writing	---	188 – 198
	Section B – Study Skills – II: Word-stress	---	199 – 206
	Revision Test – IV	---	207 – 210
Module : V			
Unit 18	Poetry : What Kind of Place?	Uma Parameswaran	227 – 232
Unit 20	Composition : Describing processes	---	241 – 245
Module : VI			
Unit 21	Comprehension and Composition:		
	Section A – Study Skills – III: Idioms and Phrases	---	251 – 259
	Section B – Note-making	---	260 – 270
	Section C – Verb Patterns	---	271 – 277
Unit 22	Comprehension Passages		
	[Except S.Nos. 12 &13 – From 284 – 285]	---	278 – 284
	Model Question Paper	---	286 – 292

ACADEMIC YEAR 2020-2021

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INTERMEDIATE 2nd YEAR ENGLISH MODERN LANGUAGE (ML) SYLLABUS

I. PROSE

1. Playing the English Gentleman	M K Gandhi	3 – 11
2. The Bet	Anton Chekov	12 – 25
4. On Smiles	A G Gardiner	40 – 48
6. Sale	Anita Desai	65 – 78

II. POETRY

1. Ulysses	Alfred Lord Tennyson	103 – 110
3. The Unknown Citizen	W H Auden	118 – 124
4. To the Indians Who Died in South Africa	T S Eliot	125 – 129
5. The Night of the Scorpion	Nissim Ezekiel	130 – 134
7. Telephone Conversation	Wole Soyinka	139 – 144

III. NON DETAILED TEXT

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HYDERABAD

ACADEMIC YEAR 2020-2021

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INTERMEDIATE 2nd YEAR PHYSICS SYLLABUS

CHAPTER – 1: WAVES

- 1.1 Introduction
- 1.2 Transverse and Longitudinal waves
- 1.3 Displacement relation in a progressive wave
- 1.4 Speed of a Travelling Wave
- 1.5 The principle of superposition of waves,
- 1.6 Reflection of waves
- 1.7 Beats

CHAPTER– 2: RAY OPTICS AND OPTICAL INSTRUMENTS

- 2.1 Introduction
- 2.3 Refraction
- 2.4 Total Internal Reflection
- 2.5 Refraction at Spherical Surfaces and by Lenses.
- 2.6 Refraction through a prism
- 2.7 Dispersion by a Prism
- 2.8 Some Natural phenomena due to Sunlight (except 2.8.2)
- 2.8.1 The Rainbow
- 2.9 Optical Instruments

CHAPTER – 3: WAVE OPTICS

- 3.1 Introduction
- 3.2 Huygens Principle
- 3.3 Refraction and Reflection of plane waves using Huygens Principle
- 3.4 Coherent and Incoherent Addition of waves
- 3.5 Interference of Light waves and Young's Experiment
- 3.6 Diffraction (except 3.6.3)
- 3.6.1 The single slit
- 3.6.2 Seeing the single slit diffraction pattern
- 3.6.4 The validity of ray optics

CHAPTER – 4: ELECTRIC CHARGES AND FIELDS

- 4.1 Introduction
- 4.2 Electric Charges
- 4.3 Conductors and Insulators
- 4.4 Charging by Induction
- 4.5 Basic Properties of Electric Charge
- 4.6 Coulomb's Law
- 4.7 Forces between Multiple charges
- 4.8 Electric Field
- 4.9 Electric Field Lines
- 4.10 Electric Flux
- 4.11 Electric Dipole
- 4.12 Dipole in a uniform external field
- 4.13 Continuous Charge Distribution
- 4.14 Gauss's Law
- 4.15 Application of Gauss' Law (except 4.15.3)
 - 4.15.1 Field due to an infinitely long straight uniformly charged wire
 - 4.15.2 Field due to a uniformly charged infinite plane sheet

CHAPTER-5: ELECTROSTATIC POTENTIAL AND CAPACITANCE

- 5.1 Introduction
- 5.2 Electrostatic Potential
- 5.3 Potential due to a point charge
- 5.4 Potential due to an Electric Dipole
- 5.5 Potential due to a System of Charges
- 5.6 Equipotential Surfaces
- 5.7 Potential Energy of a System of Charges
- 5.8 Potential Energy in an External field
- 5.9 Electrostatics of Conductors
- 5.10 Dielectrics and Polarisation
- 5.11 Capacitors and Capacitance
- 5.12 The Parallel Plate Capacitor
- 5.13 Effect of Dielectric on Capacitance
- 5.14 Combination of Capacitors
- 5.15 Energy Stored in a Capacitor

CHAPTER – 6: CURRENT ELECTRICITY

- 6.1 Introduction
- 6.2 Electric current
- 6.3 Electric current in conductors
- 6.4 Ohm's Law

- 6.5 Drift Electrons and Origin of Resistivity
- 6.6 Limitations of Ohms's Law
- 6.8 Temperature Dependence of Resistivity
- 6.9 Electric Energy, Power
- 6.11 Cells, emf, Internal Resistance
- 6.12 Cells in Series and in Parallel
- 6.13 Kirchoff's Laws
- 6.14 Wheatstone Bridge (**Qualitative treatment only**)
- 6.15 Meter Bridge
- 6.16 Potentiometer

CHAPTER – 7: MOVING CHARGES AND MAGNETISM

- 7.1 Introduction
- 7.2 Magnetic Force
- 7.3 Motion in a Magnetic field
- 7.5 Magnetic Field due to a Current Element, Biot-Savart Law
- 7.6 Magnetic Field on the Axis of a Circular Current Loop
- 7.7 Ampere's Circuital Law
- 7.8 The Solenoid and the Toroid
- 7.9 Force between two Parallel Currents, The Ampere(Unit)
- 7.10 Torque on Current Loop, Magnetic Dipole
- 7.11 The Moving Coil Galvanometer

CHAPTER – 8: MAGNETISM AND MATTER

- 8.1 Introduction
- 8.2 The Bar Magnet (**except 8.2.2, 8.2.3**)
 - 8.2.1 The magnetic field lines
 - 8.2.4 The electrostatic analog
- 8.3 Magnetism and Gauss' Law
- 8.4 The Earth's Magnetism
- 8.5 Magnetisation and Magnetic Intensity

CHAPTER – 9: ELECTROMAGNETIC INDUCTION

- 9.1 Introduction
- 9.2 The experiments of Faraday and Henry
- 9.3 Magnetic Flux
- 9.4 Faraday's Law of Induction
- 9.5 Lenz's Law and Conservation of Energy
- 9.6 Motional Electromotive Force
- 9.7 Energy consideration : A Quantitative Study

- 9.8 Eddy Currents
- 9.9 Inductance
- 9.10 AC Generator

CHAPTER – 10: ALTERNATING CURRENT :

- 10.1 Introduction
- 10.2 AC voltage applied to a Resistor
- 10.3 Representation of AC Current and Voltage by Rotating Vectors- Phasors
- 10.4 AC voltage applied to an Inductor
- 10.5 AC voltage applied to a Capacitor
- 10.6 AC voltage applied to a Series LCR Circuit
- 10.8 LC Oscillations (**Qualitative treatment only**)
- 10.9 Transformers

CHAPTER – 11: ELECTRO MAGNETIC WAVES

- 11.1 Introduction
- 11.3 Electro Magnetic Waves (**qualitative treatment only**)
- 11.4 Electromagnetic Spectrum

CHAPTER–12: DUAL NATURE OF RADIATION AND MATTER

- 12.1 Introduction
- 12.2 Electron Emission
- 12.3 Photoelectric Effect
- 12.4 Experimental Study of Photoelectric Effect
- 12.5 Photoelectric Effect and Wave Theory of Light
- 12.6 Einstein's Photoelectric Equation: Energy Quantum of Radiation
- 12.7 Particle Nature of Light : The Photon
- 12.8 Wave Nature of Matter

CHAPTER–13: ATOMS

- 13.1 Introduction
- 13.2 Alpha-particle Scattering and Rutherford's Nuclear model of Atom
- 13.3 Atomic Spectra
- 13.4 Bohr Model of the Hydrogen Atom
- 13.5 The Line Spectra of the Hydrogen Atom
- 13.6 De Broglie's Explanation of Bohr's Second Postulate of Quantization

CHAPTER–14: NUCLEI

- 14.1 Introduction
- 14.2 Atomic Masses and Composition of Nucleus
- 14.3 Size of the Nucleus
- 14.4 Mass Energy and Nuclear Binding Energy (except 14.4.2)
- 14.4.1 Mass- Energy
- 14.5 Nuclear Force
- 14.7 Nuclear energy

CHAPTER–15:

SEMICONDUCTOR ELECTRONICS: MATERIALS, DEVICES AND SIMPLE CIRCUITS

- 15.1 Introduction
- 15.2 Classification of Metals, Conductors and Semiconductors (**qualitative ideas only**)
- 15.3 Intrinsic Semiconductor
- 15.4 Extrinsic Semiconductor
- 15.5 p – n junction
- 15.6 Semi conductor diode
- 15.7 Application of Junction Diode as a Rectifier
- 15.8 Special Purpose p-n Junction Diodes (except 15.8.1)
- 15.8.2 Optoelectronic junction devices
- 15.9 Junction Transistor (except 15.9.3, 15.9.4, 15.9.5)
- 15.9.1 Transistor structure and action
- 15.9.2 Basic transistor circuit configuration and transistor characteristics
- 15.10 Digital Electronics and Logic Gates
- 15.11 Integrated Circuits

CHAPTER– 16: COMMUNICATION SYSTEMS

- 16.1 Introduction
- 16.2 Elements of communication system
- 16.3 Basic Terminology used in Electronic Communication Systems
- 16.4 Bandwidth of Signals
- 16.5 Bandwidth of Transmission Medium
- 16.6 Propagation of Electromagnetic Waves
- 16.7 Modulation and its Necessity
- 16.8 Amplitude Modulation
- 16.9 Production of Amplitude Modulated Wave
- 16.10 Detection of Amplitude Modulated Wave

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INTERMEDIATE 2nd YEAR PHYSICS PRACTICALS SYLLABUS

1. Velocity of sound by Resonance apparatus
2. Determination of focal length of a Convex lens
3. Refractive index of prism material (i-d curve)
4. Meter Bridge
5. Magnetic lines of force
6. Ohm's law
7. P-N Junction diode

తెలంగాణ స్టేట్ బోర్డ్ ఆఫ్ ఇంటర్మీడియట్ ఎడ్యుకేషన్

ఇంటర్మీడియట్ మొదటి సంవత్సరం

ఆధునిక భాష - భాగం III

'ఉషోదయం' తెలుగు పాఠ్యపుస్తకం

కోవిడ్-19 మహమ్మారి కారణంగా

ఈ విద్యా సంవత్సరం (2020-21) నిర్ణయించిన పాఠ్యాంశాలు (70%)

కవిత్వవిభాగం

1. ఘోషయాత్ర - ఎఱ్ఱన
4. వృషాధిప శతకం - పొల్లూరికి సోమనాధుడు
5. మస్తిష్కంలో లేబోరేటరీ - దాశరథి కృష్ణమాచార్య

గద్యవిభాగం

1. జానపద సాహిత్యంలో వీరగాథలు - పేర్వారం జగన్నాథం
2. శ్రీనాథుని చిక్కులబెట్టిన పద్యం - డా॥ కపిలవాయి లింగమూర్తి
5. మన వూళ్ళో కూడానా? - కాంచనపల్లి చినవెంకటరామారావు

సాహిత్య విమర్శ

వ్యాకరణం

ఛందస్సు

అలంకారాలు

తెలంగాణ స్టేట్ బోర్డ్ ఆఫ్ ఇంటర్మీడియట్ ఎడ్యుకేషన్

ఇంటర్మీడియట్ రెండవ సంవత్సరం

ఆధునిక భాష - భాగం III

'రసోదయం' తెలుగు పాఠ్యపుస్తకం

కోవిడ్-19 మహమ్మారి కారణంగా

ఈ విద్యా సంవత్సరం (2020-21) నిర్ణయించిన పాఠ్యాంశాలు (70%)

పద్యభాగం

1. ప్రవరుని ఆతిథ్యం - అల్లసాని పెద్దన
2. స్థితప్రజ్ఞుడు - పరశురామపంతుల లింగమూర్తి
4. ఉత్తమ ఉపాధ్యాయుడు - నీలా జంగయ్య
5. కాంక్ష - మజహర్ మెహది

గద్యభాగం

1. ప్రజల మనిషి - పరామర్శ - సి. రాఘవాచారి
3. ప్రజాస్వామ్య కవి - కాళోజి - ముకురాల రామారెడ్డి
4. శ్రామిక గేయాలు - డా॥ గోపు లింగారెడ్డి

వ్యాకరణాంశాలు

1. భాషాశాస్త్రం
2. వ్యాకరణము

కథానుధ (ఉపవాచకం)

1. నిజమైన మనుషులు - చక్రవర్తి రంగస్వామి
2. ముమూర్షువులు - వల్లపురెడ్డి బుచ్చారెడ్డి
3. ఒక ఆత్మకథ - ఎన్.కె. రామారావు

తెలంగాణ స్టేట్ బోర్డ్ ఆఫ్ ఇంటర్మీడియట్ ఎడ్యుకేషన్

ఇంటర్మీడియట్ మొదటి సంవత్సరం

ద్వితీయ భాష - భాగం II

‘నవోదయం’ తెలుగు పాఠ్యపుస్తకం

కోవిడ్-19 మహమ్మారి కారణంగా

ఈ విద్యా సంవత్సరం (2020-21) నిర్ణయించిన పాఠ్యాంశాలు (70%)

కవిత్య విభాగం

1. విద్యాలక్ష్యం - నన్నయ
2. మిత్రధర్మం - బమ్మెర పోతన
3. శతకసుధ - ఏనుగు లక్ష్మణకవి
- ధర్మపురి శేషప్ప
- మారద వెంకయ్య
4. అచలం - దున్న ఇద్దాసు
5. నాపేరు ప్రజాకోటి - దాశరథి కృష్ణమాచార్యులు

గద్య విభాగం

3. ప్రాచీన సాహిత్యంలో మానవతావాదం - ఆచార్య రవ్వా శ్రీహరి
4. బతుకమ్మ పండుగ - డా॥ రావి ప్రేమలత
5. తెలంగాణ జాతీయాలు - వేముల పెరుమాళ్ళు
6. రాజాబహద్దూర్ వేంకటరామారెడ్డి సేవాత్మరత - సురవరం ప్రతాపరెడ్డి

వ్యాకరణాంశాలు

1. సంధులు
2. సమాసాలు
3. లేఖారచన
4. సాధారణ వ్యాసాలు
5. స్థూల అవగాహన
6. అనువాదం

కథాలహరి (తెలుగు ఉపవాచకం)

1. గొల్ల రామప్ప - పి.వి. నరసింహారావు
3. స్నేహలతాదేవి లేఖ - డా॥ ముదిగంటి సుజాతారెడ్డి
4. ఇన్నానియట్ - డా॥ దిలావర్

మాదిరి ప్రశ్నాపత్రం

తెలంగాణ స్టేట్ బోర్డ్ ఆఫ్ ఇంటర్మీడియట్ ఎడ్యుకేషన్

ఇంటర్మీడియట్ రెండవ సంవత్సరం

ద్వితీయభాష - భాగం II

‘శుభ్రోదయం’ తెలుగు పాఠ్యపుస్తకం

కోవిడ్-19 మహమ్మారి కారణంగా

ఈ విద్యా సంవత్సరం (2020-21) నిర్ణయించిన పాఠ్యాంశాలు (70%)

పద్యభాగం

1. విదుర నీతి - తిక్కన సోమయాజి
2. బెజ్జమహాదేవికథ - పాల్కురికి సోమన
3. గోల్కొండ కవితాప్రభ - డా॥ సురవరం ప్రతాపరెడ్డి
5. రవ్వలపతాక - తిరుమల శ్రీనివాసాచార్య
6. ఆరుద్రపురుగు - కృష్ణమూర్తి యాదవ్

గద్యభాగం

1. భాష-చరిత్ర-సంస్కృతి - డా॥ ఇరివెంటి కృష్ణమూర్తి
2. ఆదర్శమూర్తి-అరిగె రామస్వామి - ఎమ్.ఎల్. నరసింహారావు
4. జాతీయోద్యమంలో స్త్రీలు - డా॥ తిరునగరి దేవకీదేవి
5. మనమాట తీపి - నలిమెల భాస్కర్

వ్యాకరణాంశాలు

1. అలంకారాలు
2. ఛందస్సు
3. భాషాభాగాలు
4. సంక్షిప్తీకరణ
5. సంభాషణ రచనా నైపుణ్యం

నాటక ప్రవంతి (ఉపవాచకం)

1. దుష్టపంచాయితీ - ఒద్దిరాజు సోదరులు
2. తొలకరి - కె.ఎల్. నరసింహారావు

ACADEMIC YEAR 2020-2021

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INTERMEDIATE 2nd YEAR URDU (SL) SYLLABUS

		شاعری
فیض احمد فیض	از	❖ پہلی سی محبت
امجد حیدر آبادی	از	❖ رباعیات
داغ دہلوی	از	❖ غزل
خورشید احمد جامی	از	❖ غزل
		نثر
سعادت حسن منٹو	از	❖ منظور
مولوی عبدالحق	از	❖ نام دیومالی
شیلاراج	از	❖ نواب میر عثمان علی خان
		❖ آصف جاہ سابع کی رواداری
عابد معز	از	❖ غذا میں چکنائی
		قواعد
		❖ واحد، جمع، سابقے اور لاحقے
		❖ علم بیان
		❖ صنائع
		❖ محاورے اور ضرب الامثال
		❖ روداد نگاری
		❖ خطوط نویسی
		سرسری مطالعہ
رابندر ناتھ ٹیگور	از	❖ کابلی والا
عائق شاہ	از	❖ سونے کی اینٹ

ACADEMIC YEAR 2020-2021

70% CONTENT IN VIEW OF COVID-19 PANDEMIC

INTERMEDIATE 1st YEAR URDU (SL) SYLLABUS

شاعری

❖	بزم انجم	از	علامہ اقبال
❖	ترانہ دکن	از	سکندر علی وجد
❖	غزل	از	مومن خان مومن
❖	غزل	از	ابن انشا
❖	سیر پہلے درویش کی	از	میر امن
❖	پنچایت	از	پریم چند
❖	میں نے لکھنا کیسے شروع کیا	از	ابن صفی
❖	محبوب حسین جگر	از	یوسف ناظم

قواعد

❖	اسم
❖	ضمیر اور صفت
❖	جنس
❖	فعل
❖	عبارت فہمی
❖	ترجمہ

سرسری مطالعہ

❖	میر اسکول	از	موہن داس کرم چند گاندھی
❖	انار کے چودہ دانے	از	ڈاکٹر سید محی الدین قادری زور
❖	نازاٹھانے کو ہم رہ گئے ڈاکٹروں کے	از	مجتبیٰ حسین

ACADEMIC YEAR 2020-2021

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INTERMEDIATE 1st YEAR URDU MODERN LANGUAGE (ML) SYLLABUS

حصہ نثر	
2. دکنی کلچر (مضمون)	از ہارون خاں شیروانی
3. عہد عثمانی کا اردو ادب (مضمون)	از ڈاکٹر محمد علی اثر
4. جان عالم کا توتا (داستان)	از مرزا رجب علی بیگ سرور
6. بے غرض محسن (افسانہ)	از پریم چند
7. منی تبسم (خاکہ)	از عوض سعید
8. اور مجھے ایوارڈ ملا	از فکر تونسوی

حصہ غزل	
1. غزل	از قلی قطب شاہ
2. غزل	از ولی
4. غزل	از انشاء اللہ خاں انشاء
5. غزل	از امیر مینائی
7. غزل	از حسرت موہانی
8. غزل	از سعید شہیدی
9. غزل	از شاد تمکنت

حصہ نظم	
1. پیسہ	از نظیر اکبر آبادی
2. ایک نوجوان کے نام	از شیخ محمد اقبال
4. انتظار	از مخدوم محی الدین
5. حیدرآباد	از سکندر علی وجد
6. اٹھائیس تاریخ	از سلیمان خطیب
8. عادت	از کیفی اعظمی
9. رباعیات امجد	از امجد حیدر آبادی

ACADEMIC YEAR 2020-2021

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INTERMEDIATE 2nd YEAR URDU MODERN LANGUAGE (ML) SYLLABUS

حصہ ”الف“

1. اردو زبان کے آغاز کے مختلف نظریات
تلخیص و ترتیب
4. دارالترجمہ جامعہ عثمانیہ
از بدر شکیب
5. ادارہ ادبیاتِ اردو
از خواجہ حمید الدین شاہد

حصہ ”ب“

6. گولکنڈہ میں شعر و ادب کا نشوونما
از ڈاکٹر سید محی الدین قادری زور
7. ماہ لقا بانی چندا
از ابوالفیض سحر
10. تنقید اور اس کے دبستان
از نور الحسن نقوی

حصہ ”ج“

12. صحافت کیا ہے؟
تلخیص و ترتیب
14. بچوں کے رسائل و جرائد
تلخیص و ترتیب

حصہ ”د“

15. فصاحت بلاغت

حصہ ”ه“

16. رپورٹاژ : پودے
از کرشن چندر

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INTERMEDIATE 1st YEAR ZOOLOGY SYLLABUS

UNIT- I: ZOOLOGY - Diversity of Living World

- 1.1. What is life?
- 1.2. Nature, Scope & meaning of zoology
- 1.3. Branches of Zoology
- 1.6. Levels or Hierarchy of classification
- 1.7. Nomenclature
- 1.8. Species concept
- 1.9. Kingdom Animalia
- 1.10. Biodiversity – Meaning and distribution (Genetic diversity, Species diversity, Ecosystem diversity (alpha, beta and gamma), other attributes of biodiversity, role of biodiversity, threats to biodiversity, methods of conservation, IUCN Red data books, Conservation of wild life in India – Legislation, Preservation, Organisations, Threatened species.

UNIT- II: STRUCTURAL ORGANIZATION IN ANIMALS

- 2.1. Levels of organization, Multicellularity: Diploblastic & Triploblastic conditions
- 2.2. Asymmetry, Symmetry: Radial symmetry, and Bilateral symmetry
- 2.3. Acoelomates, Pseudocoelomates and Eucoelomates: Schizo & Entero coelomates
- 2.4. Tissues: Epithelial, Connective, Muscular and Nervous tissues. (make it a little more elaborative)

UNIT- III: ANIMAL DIVERSITY - I:

INVERTEBRATE PHYLA General Characters – Strictly restrict to 8 salient features only classification up to Classes with two or three examples – Brief account only

- 3.1. Porifera
- 3.2. Cnidaria
- 3.3. Ctenophora

- 3.4. Platyhelminthes
- 3.5. Nematoda
- 3.6. Annelida (Including Brief type study of Earthworm)
- 3.7. Arthropoda
- 3.8. Mollusca
- 3.9. Echinodermata
- 3.10. Hemichordata

UNIT- IV: ANIMAL DIVERSITY - II: PHYLUM : CHORDATA

- 4.0. Phylum :Chordata
- 4.1. Sub phylum: Urochordata
- 4.2. Sub phylum: Cephalochordata
- 4.3. Sub phylum : Vertebrata
- 4.4. Super class: Agnatha
 - 4.4.1. Class Cyclostomata
- 4.5. Super class: Gnathostomata
 - 4.5.1. Super class pisces
 - 4.5.2. Class: Chondrichthyes
 - 4.5.3. Class: Osteichthyes
- 4.6. Tetrapoda
 - 4.6.1. Class: Amphibia (Including brief type study of Frog)
 - 4.6.2. Class: Reptilia
 - 4.6.3. Class: Aves
 - 4.6.4. Class: Mammalia

UNIT- VI : BIOLOGY IN HUMAN WELFARE

- 6.1. Parasitism and parasitic adaptation
- 6.2. Health and disease: introduction (follow NCERT) Life cycle, Pathogenecity, Treatment & Prevention (Brief account only)
 - 1. *Entamoeba histolytica*
 - 2. *Plasmodium vivax*
 - 3. *Ascaris lumbricoides*
 - 4. *Wuchereria bancrofti*
- 6.3. Brief account of pathogenecity, treatment & prevention of Typhoid, Pneumonia, Common cold, & Ring worm.
- 6.4. Drugs and Alcohol absuse

UNIT- VIII : ECOLOGY & ENVIRONMENT

- 8.1. Organisms and Environment: Ecology, population, communities, habitat, niche, biome and ecosphere (definitions only)
- 8.2. Ecosystem: Elementary aspects only Abiotic factors- Light, Temperature & Water (Biological effects only), Ecological adaptations
- 8.3. Population interactions
- 8.5.1 Biotic factors
- 8.5.2 The food chains
- 8.6.2 Nutrient cycles - Nitrogen cycle (Brief account)
- 8.7 Population attributes: Growth, Natality and Mortality, Age distribution, Population regulation.

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INTERMEDIATE 1st YEAR ZOOLOGY PRACTICAL SYLLABUS

I.	Study of Parts of a Compound microscope
II.	Study of Invertebrate slides and identification with giving Classification and reasons
1. INVERTEBRATE SLIDES	
	1. Amoeba (Whole mount)
	2. Euglena (Whole mount)
	3. Paramecium (Whole mount)
	4. Hydra (Whole mount)
	5. Liver Fluke (Whole mount)
2. HISTOLOGICAL SLIDES	
	1. Squamous Epithelium
	2. Columnar Epithelium
	3. T.S. of Cartilage
	4. T.S. of Bone
	5. Blood Smear of Mammals
	6. Striated Muscles
	7. Unstriated Muscles
III.	Study of Invertebrate Specimens and identification with giving Classification and reasons
2. INVERTEBRATE SPECIMENS	
	1. Euspongia
	2. Aurelia
	3. Metridium
	4. Taenia solium
	5. Ascaris – Male

	6. Ascaris – Female
	7. Nereis
	8. Leech
	9. Earth worm
	10. Scolopendra
	11. Julus
	12. Palaemon
	13. Araenia
	14. Palamneus
	15. Unio
	16. Silk moth/ Silk Worm
	17. Honey Bee
	18. Pila
	19. Asterias
IV.	DISSECTIONS
	Note: No Dissection of live animals. The student has to draw the diagram of the system that is displayed or projected.
	1. Earthworm – Digestive System
	2. Earthworm – Nervous System
	3. Earthworm – Sperm thecae

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INTERMEDIATE 2nd YEAR ZOOLOGY PRACTICAL SYLLABUS

A. VERTEBRATE SLIDES OF MAMMAL

1. L.S. of kidney
2. T.S. of testis
3. T.S. of ovary

B. VERTEBRATE SPECIMENS

1. Shark
2. Rohu
3. Catla
4. Labeo
5. Frog
6. Sea snake
7. Naja naja
8. Viper
9. Pigeon
10. Rabbit

C. PHYSIOLOGY EXPERIMENTS

1. Demonstration of digestion of starch by salivary amylase.
2. Identification of presence of glucose in the given samples.
3. Identification of presence of albumin in the given samples.

D. DISSECTIONS AS MODELS THROUGH UNLABELLED MODELS OR CHARTS

(Human)

1. Arterial system
2. Venous system
3. Urinogenital system

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INTERMEDIATE 2nd YEAR ZOOLOGY SYLLABUS

UNIT-I Human Anatomy and Physiology-I

Unit I B : Breathing and Respiration

Respiratory organs in animals; Respiratory system in humans; Mechanism of breathing and its regulation in humans - Exchange of gases, transport of gases and regulation of respiration; Respiratory volumes; Respiratory disorders: Asthma, Emphysema, Occupational respiratory disorders - Asbestosis, Silicosis, Siderosis, Black Lung Disease in coal miners.

UNIT II : Human Anatomy and Physiology-II

Unit II A: Body Fluids and Circulation

Covered in I year composition of lymph and functions; Clotting of blood; Human circulatory system - structure of human heart and blood vessels; Cardiac cycle, cardiac output, double circulation; regulation of cardiac activity; Disorders of circulatory system: Hypertension, coronary artery disease, angina pectoris, heart failure.

Unit II B: Excretory products and their elimination

Modes of excretion - Ammonotelism, Ureotelism, Uricotelism; Human excretory system - structure of kidney and nephron; Urine formation, osmoregulation; Regulation of kidney function -Renin-Angiotensin - Aldosterone system, Atrial Natriuretic Factor, ADH and diabetes insipidus; Role of other organs in excretion; Disorders: Uraemia, renal failure, renal calculi, nephritis, dialysis using artificial kidney.

UNIT III: Human Anatomy and Physiology-III

Unit IIIA: Muscular and Skeletal system

Types of movement, the muscle, mechanism of muscle contraction, muscle fatigue, cori cycle, types of muscle fibres.

Unit III B: Neural control and co-ordination

Nervous system in human beings - Central nervous system, Peripheral nervous system and Visceral nervous system; Generation and conduction of nerve impulse.

UNIT IV: Human Anatomy and Physiology-IV

Unit IVA: Endocrine system and chemical co-ordination

Endocrine glands and hormones; Human endocrine system -Hypothalamus, Pituitary, Pineal, Thyroid, Parathyroid, Adrenal, Pancreas, Gonads; Mechanism of hormone action (Elementary idea only); Role of hormones as messengers and regulators; Hypo and Hyper activity and related disorders: Common disorders -Dwarfism, acromegaly, cretinism, goiter, exophthalmic goiter, diabetes, Addison's disease, Cushing's syndrome. (Diseases & disorders to be dealt in brief).

Unit IVB: Immune system

Basic concepts of Immunology - Types of Immunity - Innate Immunity, Acquired Immunity, Active and Passive Immunity, Cell mediated Immunity and Humoral Immunity, Interferon, HIV and AIDS.

UNIT V: Human Reproduction

Unit VA: Human Reproductive System

Male and female reproductive systems; Microscopic anatomy of testis & ovary; Gametogenesis " Spermatogenesis & Oogenesis; Menstrual cycle; Fertilization, Embryo development up to blastocyst formation, Implantation; Pregnancy, placenta formation, Parturition, Lactation (*elementary idea*).

Unit VB: Reproductive Health

Need for reproductive health and prevention of sexually transmitted diseases (STD); Birth control - Need and methods, contraception and medical termination of pregnancy (MTP); Amniocentesis; infertility and assisted reproductive technologies - IVF-ET, ZIFT, GIFT (*elementary idea for general awareness*).

UNIT VI: Genetics

Heredity and variation: Mendel's laws of inheritance with reference to *Drosophila melanogaster* Grey, Black body colour; Long, Vestigial wings), Pleiotropy; Multiple alleles: Inheritance of blood groups and Rh-factor; Co-dominance (Blood groups as example); Elementary idea of polygenic inheritance; Skin colour in humans (refer Sinnott, Dunn and Dobzhansky); Sex determination - in humans, birds, *Fumea* moth, genic balance theory of sex determination in *Drosophila melanogaster* and honey bees; Sex linked inheritance - Haemophilia, Colour blindness; Mendelian disorders in humans: Thalassaemia, Haemophilia, Sick cell anaemia, cystic fibrosis PKU, Alkaptonuria; Chromosomal disorders -Down's syndrome, Turner's syndrome and Klinefelter syndrome; Genome, Human Genome Project and DNA Finger Printing,

UNIT VII: Applied Biology

Apiculture; Animal Husbandry: Pisciculture, Poultry management, Dairy management; Animal breeding; Application of Biotechnology in health: Human insulin and vaccine production ; Gene Therapy; Transgenic animals; Vaccines, MABs, Cancer biology, stem cells.

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INTERMEDIATE 1st YEAR BOTANY SYLLABUS

UNIT	CHAPTER NO	TOPIC
	1	Diversity in the living world 1.1 What is living 1.2 Diversity in living world
	2	Biological classification 2.1 kingdom of Monera 2.2 kingdom of Protista 2.3 kingdom of Fungi 2.4 Kingdom Plantae 2.5 kingdom of Animalia 2.6 Six kingdom classification 2.7 Viruses, Viroid, Prions and Lichens
	3	Science of Plants- Botany 3.1 Origin 3.2 Development 3.3 Scope 3.4 Branches
	4	Plant kingdom 4.1 Algae 4.2 Bryophytes 4.3 Pteridophytes 4.4 Gymnosperms 4.6 Plant life cycles and Alternation of Generations
II	5	Morphology of flowering plants 5.4 The Inflorescence 5.5 The flower
III	7	Sexual Reproduction in Flowering Plants 7.1 Pre fertilization structures and events 7.2 Pollination 7.3 pollen pistil interaction 7.4 Double fertilization 7.5 Post fertilization structures and events 7.6 Special modes Apomixis, Parthenocarpy and Polyembryony

IV	8	Plant Systematics
		8.1 Systems, Types of classification
		8.2 Semi technical description of a typical flowering plant
		8.3 Description of some important families
		8.3.2 Solanaceae
		8.3.3 Liliaceae
V		Cell structure and Functions
	9	Cell- the Unit of Life
	10	Biomolecules
	11	Cell Cycle and Cell division
VI	12	INTERNAL ORGANISATION OF PLANTS
	12.3	Anatomy of Dicotyledonous and monocotyledonous Plants
	12.3.1	Dicotyledonous root
	12.3.2	Monocotyledonous root
	12.3.3	Dicotyledonous stem
	12.3.4	Monocotyledonous system
VII	13	Plant Ecology
	13.1	Introduction
	13.2	Plant Communities and Ecological Adaptations

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INTERMEDIATE 1st YEAR BOTANY PRACTICAL SYLLABUS

1. Study of the parts of a compound microscope.
2. Identification and study of the morphology of representative types of bacteria, fungi and different plant groups.
3. Study and identification of different types of Inflorescences (**Special types only**)
4. Study of the reproductive parts of commonly available flowers
5. Calculation of the percentage of pollen germination
6. Study of the pollen tube growth on stigma.
7. Study and identification of various stages of female gametophyte development in the ovary of a flower.
8. Study and description of Family: Solanaceae
9. Study and description of Family: Liliaceae
10. Preparation of Herbarium sheets of flowering plants
11. Study of anatomy of dicot root
12. Study of anatomy of monocot root
13. Study of anatomy of dicot stem
14. Study of anatomy of monocot stem
15. Preparation and study of mitosis in onion root tips (To be demonstrated by teacher)
16. Study of stages of meiosis using permanent slides.

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INTERMEDIATE 2nd YEAR BOTANY SYLLABUS

UNIT - 1: PLANT PHYSIOLOGY

CHAPTER 3: ENZYMES.

- 3.1 Chemical Reactions.
- 3.2 Enzymatic conversions.
- 3.3 Nature of Enzyme action.
- 3.4 Factors affecting enzyme activity.
- 3.5 Classification and nomenclature of enzymes.
- 3.6 Cofactors.

CHAPTER 4 PHOTOSYNTHESIS IN HIGHER PLANTS.

- 4.1 What do we know?
- 4.2 Early Experiments.
- 4.3 What is the site of Photosynthesis?
- 4.4 How many pigments are involved in Photosynthesis?
- 4.5 What is Light Reaction?
- 4.6 The Electron transport
- 4.7. Where are the ATP and NADPH are used?
- 4.8 The C₄ Path way.
- 4.9 Photo Respiration
- 4.10 Factors affecting Photosynthesis

CHAPTER 5: RESPIRATION IN PLANTS

- 5.1 Do plants Breathe?
- 5.2 Glycolysis
- 5.3 Fermentation.
- 5.4 Aerobic Respiration.
- 5.5 The Respiratory Balance sheet.
- 5.6 Amphibolic Pathway.
- 5.7 Respiratory Quotient

CHAPTER 6. GROWTH AND DEVELOPMENT

- 6.4 Plant Growth regulators.

UNIT 3: Genetics

Chapter 9: --Principles of Inheritance and Variations

- 9.1 Mendel's Experiments.

- 9.2 Inheritance of one gene (monohybrid cross)
- 9.3 Deviations from Mendelian concept of dominance.
- 9.4 Inheritance of Two genes (Dihybrid cross)
- 9.5 Chromosomal Theory of Inheritance
- 9.6 Linkage and recombination.
- 9.7 Mutations

UNIT 4 MOLECULAR BIOLOGY

CHAPTER 10: Molecular Basis of Inheritance.

- 10.1 The DNA
- 10.2 The search for Genetic Material.
- 10.3 RNA world
- 10.4 Replication
- 10.5 Transcription.
- 10.6 Genetic code
- 10.7 Translation.
- 10.8 Regulation of Gene Expression

UNIT- 5 BIOTECHNOLOGY

CHAPTER 11: BIO-TECHNOLOGY; PRINCIPLES AND PROCESSES

- 11.1 Principles of Biotechnology.
- 11.2 Tools of Recombinant DNA Technology
- 11.3 Process of Recombinant DNA Technology.

Chapter 12 Biotechnology and its Applications

- 12.1 Biotechnological applications in agriculture
- 12.2 Other applications of biotechnology
- 12.3 Transgenic plants
- 12.4 Bio-safety and ethical issues.

UNIT 6: PLANTS, MICROBES AND HUMAN WELFARE

CHAPTER 14: MICROBES IN HUMAN WELFARE

- 14.1 Microbes in Household products.
- 14.2 Microbes in Industrial products.
- 14.3 Microbes in Sewage treatment.
- 14.4 Microbes in production of Biogas.
- 14.5 Microbes as Bio control agents.
- 14.6 Microbes as Bio- fertilizers.
- 14.7 Challenges posed by Microbes.

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INTERMEDIATE 2nd YEAR BOTANY PRACTICAL SYLLABUS

Part-I (To be performed by students)

1. Separation of chlorophyll pigments by paper chromatography.
2. Preparation of temporary mount of dicot and monocot root and stem.

Part II (To be demonstrated by teacher)

3. Study of the distribution of stomata in the upper and lower surface of leaf.
4. Study of aerobic respiration
5. Observe and comment on the following
 - A. Anaerobic respiration
 - B. Phototropism
 - C. Apical bud removal

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INTERMEDIATE 2nd YEAR PRACTICALS CHEMISTRY SYLLABUS

I. Qualitative analysis

Determination of one cation and one anion in a given salt.

Cation : Pb^{2+} , Cu^{2+} , Al^{3+} , Fe^{2+} , Mn^{2+} , Zn^{2+} , Ni^{2+} , Ca^{2+} , Sr^{2+} , Ba^{2+} , Mg^{2+} , NH_4^+ Anions: $(CO_3)^{2-}$, $(SO_4)^{2-}$, Cl^- , Br^- , CH_3COO^- , NO_3^- - (Note: Insoluble salts excluded)

II. Volumetric analysis (Titrimetry)

II.a. Determination of concentration/ molarity of $KMnO_4$ solution by titrating it against a standard Ferrous Ammonium Sulphate solution

II.b. Determination of concentration/ molarity of $KMnO_4$ solution by titrating it against a standard Oxalic acid solution

II.c. Determination of concentration/ molarity of HCl solution by titrating it against a standard Sodium Carbonate solution

II.d. Determination of concentration/ molarity of $NaOH$ solution by titrating it against a standard Oxalic acid solution

III.a. Tests for the functional groups present in organic compounds:

Unsaturation, alcoholic, phenolic, aldehydic, ketonic, carboxylic and amino (Primary) groups.

III.d Characteristic tests of carbohydrates, and proteins in pure samples and their detection in given food stuffs.

PROJECT

Scientific investigations involving laboratory testing and collecting information from other sources

A few suggested Projects.

- Study of the presence of oxalate ions in guava fruit at different stages of ripening.
- Study of quantity of casein present in different samples of milk.
- Preparation of soybean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, etc.
- Study of the effect of Potassium Bisulphate as food preservative under various conditions (temperature, concentration, time, etc.)
- Study of digestion of starch by salivary amylase and effect of pH and temperature on it.
- Comparative study of the rate of fermentation of following materials: wheat flour, gram flour, potato juice, carrot juice, etc.
- Extraction of essential oils present in Saunf (aniseed), Ajwain (carum), Illaichi (cardamom).
- Study of common food adulterants in fat, oil, butter, sugar, turmeric powder, chilli powder and pepper.

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INTERMEDIATE 1st YEAR CHEMISTRY SYLLABUS

Chapter 1 ATOMIC STRUCTURE	1.3 Developments leading to the Bohr's model of atom 1.4 Bohr's model for hydrogen atom 1.5.1 Dual Behaviour of matter (Brogie's equation) 1.5.2 Heisenberg's Uncertainty principle 1.6.1 quantum numbers, energies of orbitals - filling of orbitals in atom: Aufbau Principle, Pauli's exclusion principle and Hund's rule of maximum multiplicity- electronic configurations of atoms-stability of completely filled and half filled subshells.
Chapter 2 CLASSIFICATION OF ELEMENTS AND PERIODICITY OF PROPERTIES	2.3 Modern periodic law and the present form of periodic table, 2.4 Nomenclature of elements with atomic number greater than 100. 2.5 Electronic configuration of elements and the periodic table 2.6. Electronic configuration and types of elements s.p.d. and f blocks 2.7. periodic trends in properties of elements -atomic radii, ionic radii, inert gas radii, Ionization enthalpy, electron gain enthalpy, electronegativity, valency.
Chapter 3 CHEMICAL BONDING AND MOLECULAR STRUCTURE	3.1 Kossel – Lewis approach to chemical bonding 3.2 Ionic or electrovalent bond 3.3 Bond parameters 3.4 VSEPR theory: predicting the geometry of simple molecules 3.5 Valence bond theory 3.6 Hybridisation 3.7 Coordinate bond-definition with examples 3.8 Molecular orbital theory – bonding in some homonuclear diatomic molecules 3.9 Hydrogen bonding
Chapter 4 STATES OF MATTER: GASES AND LIQUIDS	4.1 Intermolecular forces 4.2 Thermal energy 4.3 Intermolecular forces Vs thermal interactions 4.4 The gaseous State. 4.5 The gas Laws 4.6 Ideal gas equation. 4.7 Grahams Law of diffusion – Dalton's law of partial pressures 4.8 Kinetic molecular theory of gases 4.9 Kinetic gas equation of an ideal gas (No derivation) – deduction of gas laws from kinetic gas equation 4.11 Behaviour of real gases: deviation from ideal gas behaviour – compressibility factor Vs pressure diagrams of real gases.
Chapter 5 STOICHIOMETRY	5.1 Importance of Chemistry-Some basics 5.3 Atomic and molecular masses- mole concept and molar mass concept of equivalent weight 5.4 Percentage composition of compounds and calculations of empirical and molecular formulae of compounds. 5.5 Stoichiometry and stoichiometric calculations. 5.7 redox reations 5.8 oxidation number concept 5.9 types of redox reactions 5.10 balancing of redox reactions-oxidation number method – of reaction(ion- electron) method.
Chapter 6 THERMODYNAMICS	6.1 Thermodynamic terms 6.2 work- enthalpy – Extensive and intensive properties - 6.3 Measurement of ΔU and ΔH : Calorimetry 6.4 Enthalpy change, $\Delta_r H$ of a reaction 6.5 Enthalpies for different types of reactions 6.6 Spontaneity 6.7 Gibbs energy change and equilibrium. 6.8 Absolute Entropy and the third law of thermodynamics
Chapter 7 CHEMICAL EQUILIBRIUM AND ACIDS BASES	7.1 Equilibrium in physical process. 7.2 Equilibrium in chemical process- dynamic equilibrium 7.3 Law of chemical equilibrium - law of mass action and equilibrium constant 7.4 Homogeneous equilibria constant in gaseous system, relation between K_p & K_c 7.5 Heterogeneous equilibria 7.6 applications of

	<p>equilibrium constant 7.8 Factors affecting Equilibria- Le-chatelier's principle- Application to industrial synthesis of ammonia and sulphur trioxide 7.9 Ionic equilibrium in solutions 7.10 Acids and bases and salts – Arrhenius, Bronsted – Lowry and Lewis concepts of acids and bases 7.12 Buffer solutions-designing of buffer solution- preparation of acidic buffer 7.13 Solubility equilibria of sparingly soluble salts solubility product constant , common ion effect on solubility of ionic salts.</p>
Chapter 8 HYDROGEN AND ITS COMPOUNDS	<p>8.1 Position of hydrogen in the periodic table 8.2 Dihydrogen-occurrence and isotopes 8.5 Hydrides: ionic, covalent and non stoichiometric hydrides 8.6 Physical and chemical properties of water, 8.8 heavy water 8.9 hydrogen as a fuel.</p>
Chapter 9 S- BLOCK ELEMENTS: ALKALI AND ALKALINE EARTH METALS	<p>Group I Elements: 9.1 Alkali metals; electronic configurations; atomic and ionic radii; ionization enthalpy; hydration enthalpy; physical properties; chemical properties; uses 9.2 General characteristics of the compounds of the alkali metals: oxides; halides; salts of oxy acids 9.3 Anomalous properties of lithium: 9.6 Alkaline earth metals; electronic configuration; ionization enthalpy; hydration enthalpy; physical properties; chemical properties; uses. 9.7 General characteristics of compounds of the alkaline earth metals 9.8 Anomalous behaviour of beryllium; its diagonal relationship with aluminum.</p>
Chapter 10 P- BLOCK ELEMENTS:GROUP-13 BORON FAMILY	<p>10.1 General introduction – electronic configuration, atomic radii, ionization enthalpy, electro negativity; physical and chemical properties 10.2 Important trends and anomalous properties of boron.</p>
Chapter 11 P - BLOCK ELEMENTS: GROUP-14 CARBON FAMILY	<p>11.1 General introduction - electronic configuration, atomic and covalent radii, ionization enthalpy, electro negativity; physical and chemical properties. 11.2 Important trends and anomalous properties of carbon 11.3 Allotropes of carbon 11.4 Uses of carbon.</p>
Chapter 12 ENVIRONMENTAL CHEMISTRY	<p>----- Nil-----</p>
Chapter 13 ORGANIC CHEMISTRY- SOME BASIC PRINCIPLES AND TECHNIQUES HYDROCARBONS	<p>13.1 General introduction 13.2 Tetravalency of Carbon: shapes of organic compounds 13.3 Structural representations of organic compounds 13.4 Classification of organic compounds 13.5 Nomenclature of organic compounds 13.6 Isomerism 13.7 Fundamental concepts in organic reaction mechanisms 13.11 HYDROCARBONS- Classification of hydrocarbons. 13.12 Alkanes – nomenclature, isomerism (structural and conformations of ethane only) 13.12.1 Preparation and properties of alkanes 13.13 Alkenes- nomenclature, structure of ethene, isomerism (structural and geometrical). Methods of preparation of alkenes physical and chemical properties of alkenes 13.14 Alkynes – nomenclature and isomerism, structure of acetylene- methods of preparation of acetylene-physical properties, chemical reactions of acetylene 13.15 Aromatic Hydrocarbons: nomenclature and isomerism- structure of benzene, resonance and aromaticity-Preparation of benzene- physical and chemical properties of benzene- directive influence of functional groups in mono substituted benzene, carcinogenicity and toxicity</p>

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INTERMEDIATE 2nd YEAR CHEMISTRY SYLLABUS

Chapter 1 SOLID STATE	1.1 General characteristics of solids. 1.2 Amorphous and crystalline solids. 1.3 Classification of crystalline solids 1.4 Probing the structure of solids: X-ray Crystallography 1.5 Crystal lattices and unit cells 1.6 Number of atoms in a Unit cell 1.7 Close packed structures 1.8 Packing efficiency 1.9 Calculations involving unit cell dimensions 1.10 Imperfections in solids.
Chapter 2 SOLUTIONS	2.1 Types of solutions 2.2 Expressing concentration of solutions 2.3 Solubility 2.4 Vapour pressure of liquid solutions 2.5 Ideal and non-ideal solutions 2.6 Colligative properties and determination of molar mass.
Chapter 3 ELECTROCHEMISTRY AND CHEMICAL KINETICS ELECTROCHEMISTRY	3.3 Nernst equation 3.4 Conductance of electrolytic solutions applications of Kohlrausch's law chemical kinetics: 3.5 Electrolysis 3.9 Rate of a chemical reaction 3.10 Factors influencing rate of a reaction 3.11 Integrated rate equations 3.12 Pseudo first order reaction 3.13 Temperature dependence of the rate of a reaction.
Chapter 4 SURFACE CHEMISTRY	4.1 Adsorption and absorption 4.3 Colloids 4.4 Classification of colloids 4.6 Colloids Around us- application of colloids.
Chapter 5 GENERAL PRINCIPLES OF METALLURGY	-----Nil -----
Chapter 6 p-BLOCK ELEMENTS GROUP-15 ELEMENTS	6.1 Introduction-Occurance 6.2 Dinitrogen 6.3 Compounds of nitrogen-preparation and properties of ammonia 6.4 Oxides of nitrogen 6.5 Preparation and properties of nitric acid 6.6 Phosphorous-allotropic forms GROUP-16 ELEMENTS 6.10 Introduction-Occurance 6.11 Dioxygen-preparation, properties and uses 6.12 Simple oxides 6.13 Ozone-preparation, properties, structure, uses 6.14 Sulphur-allotropic forms 6.15 Sulphur dioxide-preparation, properties, uses 6.16 Oxoacids of sulphur, 6.17 sulphuric acid properties and uses GROUP-17 ELEMENTS 6.18 Occurance-Introduction 6.19 Chlorine-preparation, properties and

	uses 6.20 Hydrogen chloride: preparation, properties, uses 6.21 Oxoacids of halogens 6.22 Interhalogen compounds GROUP-18 ELEMENTS 6.23 Introduction-Occurance, electronic configuration, ionization enthalpy, atomic radii electron gain enthalpy, physical and chemical properties.
Chapter 7 d AND f BLOCK ELEMENTS & COORDINATION COMPOUNDS	7.1 Position in the periodic table 7.2 Electronic configuration of the d-block elements 7.3 General properties of the transition elements 7.8 Werner's theory of coordination compounds 7.9 Definitions of some terms used in coordination compounds 7.10 Nomenclature of coordination compounds 7.11 Isomerism in coordination compounds 7.12 Bonding in coordination compounds 7.13 Bonding in metal carbonyls 7.14 Stability of coordination compounds 7.15 Importance and applications of coordination compounds.
Chapter 8 POLYMERS	----- Nil -----
Chapter 9 BIOMOLECULES	9.1 Carbohydrates: Classification of carbohydrates, mono saccharides 9.2 Amino acids and Proteins. 9.5 Nucleic acids
Chapter 10 CHEMISTRY IN EVERYDAY LIFE	----- Nil -----
Chapter 11 HALO ALKANES AND HALO ARENES	11.1 Classification and nomenclature 11.2 Nature of C-X bond 11.3 Methods of preparation : alkyl and aryl halides 11.4 Physical properties of alkyl and arylhalides 11.5 Chemical reactions of alkyl and aryl halides.
Chapter 12 ORGANIC COMPOUNDS CONTAINING C,H AND O	(Alcohols, Phenols, Ethers, Aldehydes, Ketones and Carboxylic acids)Alcohols, Phenols and Ethers 12.1 Alcohols, phenols and ethers- classification 12.2 Nomenclature of alcohols, phenols and ethers 12.3 Structures of hydroxyl ,ether functional groups 12.4 Methods of preparation of alcohols, phenols 12.5 Physical properties of alcohols and phenols 12.6 Chemical reactions of alcohols and phenol 12.8 Ethers-Methods of preparation, physical properties and Chemical reactions Aldehydes and Ketones 12.9 Nomenclature and structure of carbonyl group 12.10Preparation of aldehydes and ketones 12.11Physical properties of aldehydes and ketones 12.12 Chemical reactions of aldehydes and ketones 12.13 Uses of aldehydes and ketones Carboxylic Acids 12.14

	Nomenclature and structure of carboxyl group 12.15 Methods of preparation of carboxylic acids 12.16 Physical properties of carboxylic acids 12.17 Chemical reactions of carboxylic acids 12.18 Uses of carboxylic acids.
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INTERMEDIATE 1st YEAR COMMERCE SYLLABUS

Unit 1 Fundamentals of Business

- Classification of human activities; Economic and non-economic activities – Types of economic activities; Business – Profession & employment; Trade - Types of Trade; Aids to Trade

Unit II Forms of Business Organisations

- Concept and Meaning of business organization; Forms of business organization; Sole Proprietorship: Meaning and definitions – features; Partnership Firm : Meaning and definition – features of Partnership firm; Types of partners; Limited liability partnership firm; Registration of partnership firm;– Rights and duties of partners

Unit III Formation of Company as per Companies Act 2013

- Joint Stock Company : Meaning and Definition of a Company as per companies Act 2013; features and classification of joint stock companies; Partnership vs Joint Stock company; Types of Companies; Differences between private company and public company; Formation of a company;. Role of Promoter. Incorporation of the Company – Capital subscription – Minimum subscription – Certificate of commencement of business

Unit IV Sources of Business Finance

- Meaning of Business Finance — significance of Business Finance; Classification of Sources of funds – Factors determining the choice of source of finance;; Short Term sources of Finance - Bill discounting, Commercial paper, Repos, Working Capital loans, Micro Finance, etc

Unit V : MSMEs

- MSMEs: Meaning and definition of enterprise and MSMEs – Registration requirements under MSMED Act, 2006 – significance of MSMEs – Privileges offered to MSMEs –other promotional measures for MSMEs.
- E-Business: Meaning and Definition of E – business – Scope of E-business – Benefits of E-business –

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INTERMEDIATE 2nd YEAR COMMERCE SYLLABUS

Unit I Financial Markets and Stock Exchange

- Financial Markets: Meaning and Concept; Classification of Financial Markets; (Money Markets, Bond Markets, Debt Market, Equity Market, Forex Market, Derivatives, Structured Products);
Primary Market - Secondary Market; Public Issue (IPO) and its linkage to Trading
- Mutual Funds - Concept, Objective, Types
- Stock Exchange - Meaning, Significance, Listing of Securities; Functions of Stock Exchange;

Unit II Banking and Insurance

- Banking Services - Meaning and Definition of Banks, Functions of Banks: Types of Deposits - Current, SB, FD, RD
- Types of Loans - CC, OD, Term loans, Retail loans (Home loan, Car loan, Education loan, Personal loan, Credit card)
- Types of Payment - Cheque, NEFT, RTGS, IMPS, Payment Wallets,
- Insurance: Meaning, Definition, Features, Principles, Functions, Types of Insurance; IRDA

Unit III Entrepreneurship

- Entrepreneurship : Meaning of Entrepreneur -Enterprise and Entrepreneurship
- Functions of an Entrepreneur - Types of Entrepreneurs -Characteristics of Entrepreneurs
- Process of setting up a business -
- Entrepreneurial Opportunities in Telangana State

Unit IV Internal and International Trade

- Internal Trade: Meaning of Trade - Types of Trade- Features of Internal Trade;
- The distribution chain - Producers- Wholesalers- Retailers- Consumers; Types of Retail Trade
- International Trade -Meaning - Importance - Scope - Benefits of International Trade;

Unit V Principles and Functions of Management

- Principles of Management - Meaning and Definitions of Management, Objectives of Management,
- Functions of Management - Planning: Organising Staffing- Direction: Controlling

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- 1.1. What is Physics?
- 1.4 Fundamental forces in nature

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- 2.1 Introduction
- 2.2 The International system of units
- 2.3 Measurement of length
- 2.4 Measurement of mass
- 2.5 Measurement of time
- 2.6 Accuracy, precision of instruments and errors in measurement
- 2.7 Significant figures
- 2.8 Dimensions of physical quantities
- 2.9 Dimensional formulae and dimensional equations
- 2.10 Dimensional analysis and its applications

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- 3.1 Introduction
- 3.2 Position, path length and displacement
- 3.3 Average velocity and average speed
- 3.4 Instantaneous velocity and speed
- 3.5 Acceleration
- 3.6 Kinematic equations for uniformly accelerated motion
- 3.7 Relative Velocity

CHAPTER –IV : MOTION IN A PLANE

- 4.1 Introduction
- 4.2 Scalars and vectors
- 4.3 Multiplication of vectors by real members
- 4.4 Addition and subtraction of vectors graphical method

- 4.5 Resolution of vectors
- 4.6 Vector addition Analytical method
- 4.7 Motion in a plane
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- 4.9 Relative velocity in two dimensions
- 4.10 Projectile motion
- 4.11 Uniform circular motion

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- 5.7 Conservation of momentum
- 5.8 Equilibrium of a particle
- 5.9 Common forces in mechanics
- 5.10 Circular motion
- 5.11 Solving problems in mechanics

CHAPTER – VI: WORK, ENERGY AND POWER

- 6.1 Introduction
- 6.2 Notions of work and kinetic energy: The work-energy theorem
- 6.3 Work
- 6.4 Kinetic Energy
- 6.5 Work done by a variable force
- 6.6 The work-energy theorem for a variable force.
- 6.7 The concept of potential energy
- 6.8 The conservation of mechanical energy
- 6.9 The potential energy of a spring
- 6.10 Various forms of energy: the law of conservation of energy
- 6.11 Power
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CHAPTER-VII: SYSTEM OF PARTICLES AND ROTATIONAL MOTION

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- 7.2 Centre of mass. Centre of gravity
- 7.3 Motion of Centre of mass
- 7.4 Linear momentum of a system of particles
- 7.5 Vector product of two vectors
- 7.6 Angular velocity and its relation with linear velocity
- 7.7 Torque and angular momentum
- 7.8 Equilibrium of a rigid body
- 7.9 Moment of inertia

- 7.11 Dynamics of rotational motion about a fixed axis.
- 7.12 Angular momentum in case of rotations about a fixed axis.
- 7.13 Rolling motion

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- 8.1 Introduction
- 8.2 Periodic and oscillatory motions
- 8.3 Simple Harmonic motions
- 8.4 Simple Harmonic motion and uniform circular motion
- 8.5 Velocity and acceleration in simple harmonic motion
- 8.6 Force law for simple harmonic motion
- 8.7 Energy in simple harmonic motion
- 8.8 Some systems executing simple harmonic motion
- 8.9 Damped simple harmonic motion
- 8.10 Forced oscillations and resonance

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- 9.3 Universal law of gravitation
- 9.6 Acceleration due to gravity below and above the surface of earth
- 9.7 Gravitational Potential energy
- 9.8 Escape Speed
- 9.9 Earth Satellite
- 9.10 Energy of an orbiting satellite
- 9.11 Geo Stationary and Polar Satellites
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- 10.2 Elastic behaviour of solids
- 10.3 Stress and Strain
- 10.4 Hooke's Law
- 10.5 Stress-Strain curve
- 10.6 Elastic Moduli
 - 10.6.1 Young's Modulus
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- 13.4 Heat, internal energy and work
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1. Vernier caliper
2. Screw gauge
3. Simple pendulum
4. Parallelogram law of forces
5. Force constant of a spring
6. Boyle's law
7. Specific heat of a solid

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INTERMEDIATE 1st YEAR FRENCH SYLLABUS

Prose

- **École de français, Paris: Au secrétariat**
- **Autour de l'école**
- **La vie quotidienne**
- **Une randonnée**

Poetry

- **La Semaine**
- **À Paris**
- **Les quatre saisons**

Lexique

- **Se présenter**
- **Présenter quelqu'un**
- **Les Nationalités**
- **Les Professions**
- **Les questions/ réponses**
- **Au téléphone : dire au revoir**
- **S'orienter**
- **Rédiger un emploi du temps**
- **Communiquer en classe**
- **Fixer un rendez-vous au téléphone**
- **Fixer l'heure, l'endroit, pour une réunion**
- **Parler des prix**
- **Dire l'heure**
- **Faire les projets pour la soirée**
- **Demander/Indiquer le chemin**
- **Demander la direction**
- **Donner les indications**
- **Le Corps**

Culture/ Civilisation

- **La France**
- **Papiers d'identité**
- **L'école, Les études**
- **Les différentes matières**
- **Les jours, la semaine**
- **Paris**
- **Versailles**
- **Le billet de bateau-mouche**
- **La tour Eiffel**
- **La SNCF**
- **Le Calendrier**
- **Le mois, l'année**
- **Les Parfums**
- **Les Fromages, Les Vins**
- **Les Saisons**
- **Les Fêtes**
- **La Météo**
- **La Bretagne, La Bourgogne**
- **La Provence, Cote d'Azur**

GRAMMAIRE

- **L'alphabet**
- **Les Chiffres 0 à 50**
- **L'article défini, indéfini**
- **Les présentateurs : C'est/ Ce sont**
- **Quelques verbes**
- **Pronom tonique**
- **Les Prépositions**
- **Les Pluriels**
- **L'article contracte**
- **Le présentateur « il y a »**
- **Quelques verbes**
- **Les chiffres de 50 à l' infini**
- **La négation**
- **Le pronom 'on'**
- **Les présentateurs « voici, voilà »**
- **Le pronom tonique**
- **Le Futur proche**
- **L'interrogation**
- **Les infinitifs**

- **La question négative**
- **Quelques verbes**
- **L'impératif (Unité 1 Leçon 4)**
- **Quelques verbes (Unité 1 Leçon 4)**

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INTERMEDIATE 2nd YEAR FRENCH SYLLABUS

Detailed Syllabus

(Unité 2 Leçon 1 à Unité 2 Leçon 4)

70% of the Regular Syllabus

Prose

- **Préparatifs d'un voyage**
- **À Lausanne**
- **Un dimanche à la montagne**
- **Il était un fois**

Poetry

- **Pour toi mon amour**
- **Expressions Québécoises**
- **Une chanson pomme**
- **Mon pays**

Lexique

- **Donner des informations personnelles**
- **Exprimer des faits futurs**
- **Le voyage**
- **Vocabulaire de la gare et du train**
- **Exprimer l'ignorance**
- **Exprimer la certitude**
- **Indiquer les éléments du passé**
- **Raconter un événement**
- **Ecrire une lettre personnelle**
- **Types de logement**
- **Raconter une journée**
- **S'informer sur des prix, sur la taille**
- **L'échange**
- **Vêtements, équipements de ski**
- **Techniques de ski**

- Parler d'autrefois
- Décrire des habitudes présentes et passées
- Inviter quelqu'un
- Accepter, refuser les invitations
- Parler de l'avenir proche ou lointain
- Donner un conseil
- La Famille

Culture/ Civilisation

- Billets de train
- La Suisse
- Plurilinguisme et multi culturalité de la Suisse
- Passer la frontière
- Les petites annonces
- Les Chiffres Suisses
- Le Chalet
- Le Lac Léman
- Les sports d'hiver
- Le Gruyère
- Les montagnes
- Quelques organisations internationales à Genève
- Le château de Chillon

GRAMMAIRE

- Le Passé Récent
- Le Futur
- Les adjectifs possessifs
- Les adjectifs démonstratifs
- Quelques verbes
- La Comparaison
- Il faut
- Le Passé Composé
- Les nombres ordinaux
- Les compléments de temps
- Les formes de négation
- Quelques verbes
- Le superlatif
- Le pronom interrogatif
- Le Passé Composé avec la négation, l'interrogation
- Les connecteurs de temps
- Quelques verbes
- L'imparfait

- **Imparfait et Passé Composé**
- **Les pronoms relatifs**
- **Les adverbes**

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INTERMEDIATE 1st YEAR GEOGRAPHY SYLLABUS

PartA:	Fundamentals of Physical Geography
Unit1:	Geography as a Discipline Geography as an integrating discipline, Branches of Geography: Physical Geography and Human Geography
Unit2:	The Earth- : Interior of the earth; Wegener's continental drift theory and plate tectonics Earthquakes and volcanoes: causes, types and effects
Unit3:	Landforms Rocks: major types of rocks and their characteristics Geomorphic processes: weathering; mass wasting; erosion and deposition;
Unit4:	Climate: Elements of weather and climate; Atmosphere - composition and structure; Insolation: heating and cooling of atmosphere (conduction, convection, terrestrial radiation and advection); temperature- factors controlling temperature; distribution of temperature- horizontal and vertical; inversion of temperature. Pressure-factors & distribution; pressure belts; winds-planetary, seasonal and local;
Unit5:	Oceans: Basics of Oceanography <ul style="list-style-type: none">□ Oceans-distribution of temperature and salinity□ Movements of ocean water-waves, tides and currents; submarine reliefs□ Ocean pollution
Unit 6:	Life on the Earth <ul style="list-style-type: none">□ Biosphere-importance of plants and other organisms;□ Ecosystem and ecological balance; biodiversity and conservation;
Unit 7	Hazards and Disasters: Causes, Consequences and Management Floods, Cloudbursts; Droughts: Tsunami Cyclones: features and impact.
Part B:	Practical Work
Unit1:	Fundamentals of Maps <ul style="list-style-type: none">□ Geospatial data, Concept of Geographical data matrix; Point, line, area data□ Maps- types; scales-types; construction of simple linear scale, measuring distance; finding direction and use of symbols
Unit2:	Topographic and Weather Maps <ul style="list-style-type: none">□ Study of topographic maps (1:50,000 or 1:25,000 Survey of India maps); contour cross section and identification of landforms - slopes, hills, valleys, waterfall, cliffs and distribution of settlements□ Use of weather instruments: thermometer, wet and dry-bulb thermometer, barometer, wind vane and rain gauge

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INTERMEDIATE 2nd YEAR SYLLABUS

Fundamentals of Human and Economic Geography

UNIT 1: Human Geography

Meaning, Nature, scope and relevance of human Geography;
Man–Environment relationships;

UNIT 2: World Population

Distribution, density of population, Growth of population in the world.
Factors affecting / influencing distribution of population,

UNIT 3: Economic Geography

Economic geography: Definition, Scope and Significance;
Sectors of economic activity: Concepts, changing trends.

Primary Activities: Concepts, changing trends.

Food gathering, pastoral, mining and subsistence agriculture.

Secondary Activities: concepts. Manufacturing industries: Locational factors, types -
distribution and production –

Agro based: Textile (cotton), Mineral based (Iron and steel): Petro-chemical.

Mineral resources: Iron ore, Bauxite, Power resources: Coal, petroleum and; Non-
conventional sources of energy.

Tertiary Economic activities: Concepts, people engaged in the tertiary activities with some
examples

Quaternary Economic activities: Concepts, people engaged in the quaternary activities with
some examples

UNIT 4. World Transportation and Trade

Relative significance of different means of transport- Land transport, Railways –
transcontinental railways, Air ways and Water ways.

World oceanic routes; important inland waterways and important canals;

International trade.

UNIT 5: Environment and Resources

Resources: Definition, Classification - Resource depletion.

Environment: Meaning, definition and components;

Environmental conservation and management; sustainable development.

UNIT 6: Human Settlements

Settlement types - rural and urban.

Part – B: Geography of India

UNIT 7 - Physiography:

Locational characteristics; Physical setting, Physiographic divisions;
Drainage system: The Himalayan and Peninsular System

UNIT 8 - Climate:

Origin of monsoon, climatic regions in India; distribution of temperature and rainfall.

Soils: types and distribution, **Vegetation:** types and distribution.

UNIT 9 - Population: Population: Size, Growth, Distribution and Density from 1901-2011;

Trends of Urbanization, population problems.

Migration: International, National, causes and consequences.

Human Development: Introduction and Regional Pattern

UNIT 10 - Resources:

Mineral and Energy Resource Base: distribution and production

Minerals –Iron ore, Manganese,

Power resources- Coal, Petroleum and Non-conventional sources of energy (Solar, Wind and Biogas), Conservation of Resources.

UNIT 11 - Land Resources:

Agriculture: General Land Use, Land Use Classification

Distribution and production of Major Crops- Wheat, rice, sugarcane, cotton, castor and ground nut, Coffee and tea – their distribution, production

UNIT 12 - Water Resources:

Irrigation and Power: types of irrigation. Wells, canals, and tanks;

Major multipurpose projects: Bhakra Nangal, Nagarjuna Sagar, Rain Water Harvesting and Watershed Management.

UNIT 13 - Industries:

Location factors, growth, distribution, and trade

Pharmaceuticals, and Knowledge based industries (IT). Globalization and Economic Development.

UNIT 14 - Transport and Trade:

Means of transport; roadways, railways, airways, and water ways, Major ports of India,

Part C- Telangana

UNIT 15 – Telangana: Administrative regions; physiography and Drainage:

UNIT 16 – Climate: Distribution of climate, temperature and rainfall.

Soils: types, distribution, characteristics; **Vegetation:** types and distribution.

UNIT 17 - Population:

Size, Growth, Distribution and Density from 1961-2011; demographic characteristics: literacy, sex ratio; Rural and Urban populations.

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INTERMEDIATE 2nd YEAR PRACTICAL SYLLABUS

Fundamentals of Human and Economic Geography

Representation of Data

- 1. Diagrammatic representation of geographical data:** types and their uses;
One-dimensional: Line diagram, bar diagrams- simple bar, compound bar, multiple bar diagram; **Two-dimensional:** Pie diagram;
- 2. Distribution maps:** Dot, Isopleth maps-uses, merits and demerits, Choropleth, Chorochromatic and Choroschematic Isotherm, Isobars and Isohyets.
- 3. Sources of Data;** Tabulation and Classification of Data; Frequency Distribution, Histogram,
- 4. Measures of Central Tendency:** Mean Median and Mode. Mean Deviation and Standard Deviation,
- 5. Introduction to GIS:** Introduction Geographical Information System (GIS)

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INTERMEDIATE FIRST YEAR HINDI (SECOND LANGUAGE) SYLLABUS

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INTERMEDIATE FIRST YEAR HINDI (MODERN LANGUAGE) SYLLABUS

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INTERMEDIATE SECOND YEAR HINDI (SECOND LANGUAGE) SYLLABUS

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INTERMEDIATE 1st YEAR HISTORY SYLLABUS

Chapter-1: History, Geography and Sources

- 1.1 History and its Importance
- 1.2 Geographical Features of India
- 1.3 Influence of Geography on Indian History
- 1.4 Sources of History
- 1.5 Archaeological Sources
- 1.6 Literary Sources: A. Indigenous Sources

Chapter-2: Indus Valley Civilization & Vedic Culture

- 2.1 Indus Valley Civilization
- 2.2 Town Planning
- 2.3 Political System
- 2.4 Social Conditions
- 2.5 Economic Conditions
- 2.6 Trade and Commerce
- 2.7 Technology and Crafts
- 2.8 Religious Conditions
- 2.9 Decline of the Civilization
- 2.10 Vedic Culture
- 2.11 Early Vedic Period
- 2.12 Later Vedic Period

Chapter-3: Socio-Religious Movements in Ancient India

- 3.1 Origin of new religions in India
- 3.2 Jainism
- 3.3 Contribution of Jainism to the Indian culture
- 3.4 Buddhism
- 3.5 Teachings of Buddha
- 3.6. Contribution of Buddhism to the Indian Culture
- 3.7. Decline of Buddhism

Chapter-4: Origin of State and Mauryan Empire

- 4.1 Mahajanapadas
- 4.2 Emergence of Magadha
- 4.3 Alexander's Invasion
- 4.4 Mauryan Empire
- 4.5 Ashoka
- 4.6 Mauryan Administrative System
- 4.7 Economics, Social and Cultural Conditions

Chapter-5: Imperial Guptas

- 5.1 Political History
- 5.2 Administration
- 5.3 Decline of the Guptas
- 5.4 Harshavardhana[606-647 C.E.]

Chapter-6: Age of Rajputs

- 6.1 The Origin of Rajputs
- 6.2 Political History
- 6.3 The Paramaras
- 6.4 Rajput Culture
- 6.5 Arab Conquest of Sindh

Chapter-7: South Indian Kingdoms

- 7.1 The Pallavas
- 7.2 Administration of Pallavas
- 7.4 The Cholas (850-1280 C.E.)

Chapter-8: The Age of Delhi Sultanate

- 8.1 Brief Political History
- 8.2 Important Sultans and their Achievements
- 8.3 Administration
- 8.4 Social and Economic Conditions
- 8.5 Indo-Islamic Culture
- 8.6 Bhakti and Sufi Movements

Chapter-9: Age of Mughals

- 9.1 Babur (1526-1530 C.E.)
- 9.2 Humayun (1530-1540 C.E. and 1555-1556 C.E.)
- 9.3 Sur Dynasty (1540-1555 C.E.)
- 9.4 Imperial Mughals
- 9.5 Mughal Administration
- 9.6 cultural Development under the Mughals

Chapter-10: Marathas and Rise of Regional Powers

- 10.1 Introduction
- 10.2 Factors led to the Rise of the Maratha Power
- 10.3 Shivaji (1627-1680 CE)
- 10.4 Successors of Shivaji
- 10.5 Peshwas
- 10.6 Third Battle of Panipat(1761)

Chapter-11: Advent of Europeans

- 11.1 Early European settlements in India
- 11.2 Advent of European trading companies in India
- 11.3 Anglo-French Rivalry
- 11.4 Establishment of British Supremacy-Robert Clive
- 11.5 Anglo-Mysore Wars

Chapter-12: Early uprisings against British Rule

- 12.1 Tribal, Civil Rebellions and Peasant Revolts
- 12.2 Revolt of 1857
- 12.3 Queen Victoria's proclamation (1858)

Chapter-13: Socio-Religious Reform Movements in India

- 13.1 The causes of the Indian Renaissance
- 13.2 Brahma Samaj
- 13.3 Raja Ram Mohan Roy
- 13.4 KandukuriVeereshlingam
- 13.5 Prarthana Samaj
- 13.6 Swami Dayananda Saraswathi
- 13.7 Arya Samaj
- 13.8 Rama Krishna Paramahamsa (1833-1886)
- 13.9 Swami Vivekananda
- 13.10 Rama Krishna Mission
- 13.11 Theosophical Society and Mrs. Annie Besant
- 13.12 Satya ShodakSamaj and JotibaPhule
- 13.13 Narayana guru
- 13.14 Periyar E.V. RamaswamyNaicker
- 13.15 DR B.R. Ambedkar
- 13.16 The Deoband Movement
- 13.17 Sir Sayyid Ahmed Khan and Aligarh Movement
- 13.18 Reform Movements among the Parsis
- 13.19 Results of the Reform Movement

Chapter-14: National Movement – Early Phase

- 14.1 Growth of Nationalism
- 14.2 Establishment of Early Associations
- 14.3 The Moderates (1885-1905) and their principles
- 14.4 Extremist phase (1905- 1914)
- 14.5 Vande Mataram Movement- Swadeshi Movement (1905-1911)
- 14.6 The Establishment of Muslim League (1906)
- 14.7 Minto-Morley Reforms(1909)
- 14.8 Revolutionary Nationalism – The first Phase (1897-1915)
- 14.9 Home Rule Movement (1916-1918 CE)

Chapter-15 National Movement – Later Phase

- 15.1 Gandhian Era
- 15.2 Early Movements
- 15.3 Khilafat Movement (1919)
- 15.6 Civil Disobedience Movement
- 15.7 Gandhi-Irwin Pact (1931)
- 15.8 Government of India Act (1935)
- 15.9 Quit India Movement
- 15.10 Cabinet Mission

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INTERMEDIATE 2nd YEAR HISTORY SYLLABUS

Unit-I GEOGRAPHY - SOURCES PRE-HISTORY

- 1.1 Geographical Features of Telangana
- 1.2 Brief Survey of Sources
- 1.3 Pre and Photo History

Unit-II Age of Satavahanas

- 2.1 Pre Satavahanas
- 2.2 Sources
- 2.3 Early Satavahanas
- 2.4 Later Satavahanas
- 2.5 Administration
- 2.6 Economy
- 2.7 Society
- 2.8 Religion

Unit-III Post Satavahana Period

- 3.1 Political History - Ikashvakus
- 3.2 Vakatakas
- 3.3 Vishnukunds
- 3.4 Chalukyan Age
- 3.5 Administration
- 3.8 Religion

Unit-IV Age of Kaktatiyas

- 4.1 Sources –
- 4.2 Brief Political History
- 4.3 Administration
- 4.4 Society

- 4.5 Economy
- 4.6 Religion
- 4.7 Literature
- 4.8 Art and Architecture

Unit-V QutubShahis

- 5.1 Sources
- 5.2 Brief Political History
- 5.3 Administration
- 5.4 Socio Culture Conditions
- 5.5 Agriculture and Irrigation
- 5.6 Trade and Commerce
- 5.7 Development of Telugu Literature
- 5.8 Art and Architecture

Unit-VI AsafJahis

- 6.1 Nizam-ul-Mulk (1724-1748)
- 6.2 Nizam Ali Khan (1762-1803)
- 6.3 Sikandar Jah (1803-1829)
- 6.4 Nasir-ud-Daula (1829-1857)
- 6.5 Afzal-ul-Daula (1857-1869)
- 6.6 Reforms of salarjung (1853-1883)
- 6.7 Mir Mahaboob Ali Khan (1869-1911CE)
- 6.8 Mir Osman Ali Khan (1911-1948CE)

Unit-VII Socio, Cultural and Political awakening in Telanagana

- 7.1 Role of News Papers
- 7.2 Library Movement
- 7.3 Arya Samaj
- 7.4 NizamRashtra Andhra Jana Sangam
- 7.5 Andhra Mahasabha
- 7.6 Andhra Mahila Sabha
- 7.7 Adi Hindu and Dalit Movements
- 7.9 The Majlis-e-Ittehad-ul-Muslimeen
- 7.10 Political Awareness

Unit-VIII Tribal and Peasant Movements in Telangana

- 8.1 Land Tenure Systems in Nizam State
- 8.2 Tribal revolts
- 8.3 Telangana peasant Armed Struggle

Unit-IX Freedom Movement in Hyderabad State

- 9.1 1857 Revolt in Hyderabad
- 9.2 National awakening in Hyderabad
- 9.3 Hyderabad State Congress.
- 9.4 Vandematharam Movement

Unit-X Separate Telangana State Movement – Early Phase

- 10.1 1952 Mulki Movement
- 10.2 Formation of Linguistic State 1956
- 10.3 Jai Telangana Movement
- 10.4 Telangana PrajaSamithi

Unit-XI Separate Telangana State Movement – Later Phase

- 11.1 Post 1969 Movement
- 11.2 Later Phase of Telangana Movement
- 11.3 Emergency Telangana RashtraSamithi
- 11.4 Indefinite strike of KCR
- 11.5 Shri Krishna Committee Report
- 11.6 Telangana Joint Action Committee (TJAC)
- 11.7 Delith, Adivasi, Minority Movements
- 11.8 Non-Cooperation Movements

Unit-XII Fairs and Festivals of Telangana

- 12.1 Important Festivals
- 12.2 Folk Tribal Festivals
- 12.3 Popular Jataras

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INTERMEDIATE 1st YEAR KANADA SYLLABUS

*** ಕಾವ್ಯ ಭಾಗ (Poetry Section)**

1. ದುರ್ಯೋಧನ ವಿಲಾಪ
2. ವಚನಗಳು:- (ಅ) ಅಲ್ಲಮಪ್ರಭು , (ಆ) ಅಕ್ಕಮಹಾದೇವಿ
3. ಹಲುಬಿದಳೆ ಕಲ್ಪರಂ ಕರಗುವಂತೆ
4. ತಲ್ಲಣಿಸಿದಿರು ಕಂಡ್ಯ ತಾಳುಮನವೇ
5. ಅಖಂಡ ಕರ್ನಾಟಕ
6. ಎಂದಿಗೆ
7. ಮಗು ಮತ್ತು ಹಣ್ಣುಗಳು
8. ನಾ ಬರೀ ಭ್ರೂಣವಲ್ಲ
9. ಸುನಾಮಿ ಹಾಡು
10. ದೇವರಿಗೊಂದು ಅರ್ಜಿ

ಗದ್ಯಭಾಗ (Prose Section)

1. ಗಾಂಧಿ
2. ಜೋತಿಷ್ಯ ಅರ್ಥಪೂರ್ಣವೋ ಅರ್ಥರಹಿತವೋ
3. ಶಾಸ್ತ್ರೀಮಾಸ್ತರ ಮತ್ತು ಮಕ್ಕಳು
4. ನಿರಾಕರಣೆ
5. ಚತುರನ ಚಾತುರ್ಯ

ನಾಟಕ (Play)

1. ಬೋಳೇಶಂಕರ

ವ್ಯಾಕರಣ(Grammar)

1. ಸಂಧಿಗಳು
2. ಸಮಾಸಗಳು

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INTERMEDIATE 2nd YEAR KANADA SYLLABUS

ಕಾವ್ಯಭಾಗ (Poetry Section)

1. ಕದಡಿದ ಸಲಿಲಂ ತಿಳಿವಂದದೆ
2. ವಚನಗಳು (ಬಸವಣ್ಣ)
3. ಇನ್ನು ಹುಟ್ಟಿದೆ ಇರಲಿ ನಾರಿಯರೆನ್ನವೊಲು
4. ಜಾಲಿಯ ಮರದಂತೆ
5. ಬೆಳಗುಜಾವ
6. ಮುಂಬೈ ಜಾತಕ
7. ಒಂದು ಹೂ ಹೆಚ್ಚಿಗೆ ಇಡತೀನಿ

ಗದ್ಯಭಾಗ (Prose Section)

1. ಮುಟ್ಟಿಸಿಕೊಂಡವನು
2. ಆಯ್ಕೆಯಿದೆ ನಮ್ಮ ಕೈಯಲ್ಲಿ
3. ಧನಿಗಳ ಬೆಳ್ಳಿ ಲೋಟ
4. ಬದುಕನ್ನು ಪ್ರೀತಿಸಿದ ಸಂತ
5. ತಿರುಳ್ಗನ್ನಡದ ಬೆಳ್ಳುಡಿ

ದೀರ್ಘಗದ್ಯ

1. ಕೃಷ್ಣೇಗೌಡರ ಆನೆ

ಛಂದಸ್ಸು:-- 1. ಗಣಗಳು 2. ವೃತ್ತಗಳು 3. ಪಟ್ಟದಿಗಳು

ಅಲಂಕಾರ :--1. ಉಪಮಾಲಂಕಾರ 2. ರೂಪಕಾಲಂಕಾರ 3. ದೃಷ್ಟಾಂತಾಲಂಕಾರ

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INTERMEDIATE 1st YEAR MATHEMATICS(IA) SYLLABUS

S.NO	CHAPTER	TOPICS	no of periods	REMARKS
1	Functions	1.0: Ordered Pairs 1.1: Types of Functions 1.3: Real valued functions (Domain, Range and Inverse)	8	
2	Mathematical Induction	Deleted		
3	Matrices	3.1: Types of Matrices 3.2: Scalar multiple of a Matrix and multiplication of matrices 3.3: Transpose of a matrix 3.4.1 to 3.4.7 : Determinants 3.5: Adjoint and inverse of a matrix 3.7:solutions of simultaneous linear equations Cramer's Rule Matrix inversion method	14	
4	Addition of Vectors	complete chapter	18	
5	Product of vectors	Introduction 5.1: Scalar or Dot product of two vectors -Geometrical 5.2: Properties of dot product 5.3: Expression for scalar (Dot) Product, Angle between Vectors 5.4 : Geometrical Vector methods 5.5: Vector Equation of plane - normal form 5.6: Angle between two planes 5.7: Vector Product (cross product) of two vectors and properties 5.8: Vector product in (i, j, k) system 5.9: Vector Areas 5.10: Scalar Triple product	20	

6	Trigonometric Ratios upto Transformations	Complete chapter	20	
7	Trigonometric Equations	Deleted		
8	Inverse Trigonometric Function	Deleted		
9	Hyperbolic functions	9.1 Definition of Hyperbolic function, Graphs 9.3: Addition formulas of Hyperbolic functions	3	
10	Properties of Triangles	Complete chapter	16	

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INTERMEDIATE 1st YEAR MATHEMATICS (IB) SYLLABUS

S.NO	CHAPTER	TOPICS	No of periods	REMARKS
1	Locus	Complete chapter	8	
2	Transformation of Axes	Complete chapter	8	
3	Straight Line	Complete chapter	19	
4	Pair of straight lines	Introduction 4.1: Equation of a pair of lines passing through the origin, Angle between a pair of lines 4.2: Condition for perpendicular and coincident lines, bisectors of angles 4.4: Pair of lines – Second degree general equation 4.6: Homogenising a second degree equation with a first degree equation in x and y Exercise 4(b) : Deleted	12	
5	Three Dimensional Coordinates	Complete chapter	4	
6	Direction Cosines and Direction Ratios	Complete chapter	10	
7	Plane	Introduction Exercise 7(a) Section I and related examples	4	
8	Limits and Continuity	Introduction 8.1: Intervals and neighbourhoods 8.2: Limits 8.3: Standard limits	9	

9	Differentiation	Introduction 9.1: Derivative of a Function 9.2: Elementary properties 9.3: Trigonometric, Inverse trigonometric, Hyperbolic, Inverse Hyperbolic Functions – Derivatives Exercise 9© Section III Deleted Exercise 9(d) Deleted	16	
10	10. Applications of Derivatives	Introduction 10.1: Errors and Approximations 10.2: Geometrical interpretation of the derivative 10.3: Equation of tangent and normal, Sub tangent, Subnormal 10.5: Angle between two curves and condition for orthogonality of curves 10.9: Maxima and Minima	15	

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INTERMEDIATE 2nd YEAR MATHEMATICS (IIA) SYLLABUS

S.NO	CHAPTER	TOPICS	no of periods	REMARKS
1	Complex Numbers	Introduction 1.1: Complex number as an Ordered pair of real numbers Fundamental operations 1.2: Representation of Complex number in the form $a+ib$	6	
2	De Moivre's Theorem	Upto exercise 2(b) section-I and related examples	10	
3	Quadratic Expressions	3.1 Quadratic expressions, equations in one variable 3.2 Sign of quadratic expressions, change of signs and maximum, minimum values	8	
4	Theory of Equations	Complete Chapter	21	
5	Permutations and Combinations	5.1 Fundamental Principles of Counting - Linear and Circular permutations 5.2: Permutation of n dissimilar things r at a time 5.6: Combinations Exercise 5(e) Section I and II Related Problems Exercise 5(e) Section III Deleted	10	
6	Binomial Theorem	Introduction Exercise 6(a) Section I and Section II up to 4th problem and related examples Exercise 6(b) Section I and related examples Exercise 6(c) Deleted	6	

7	Partial Fractions	Upto 7(c) exercise.	7	
8	Measures of Dispersion	Introduction 8.1: Range 8.2.1: Mean Deviation for ungrouped data Exercise 8(a) Section I (problems 1 and 2)	4	
9	Probability	9.1 Random experiments and events 9.2 Classical definition of probability, axiomatic approach and addition theorem on probability 9.3.1 Independent and dependent events, conditional probability, multiplication theorem and problems and related examples	18	
10	Random Variables and Probability Distribution	Complete Chapter	11	

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INTERMEDIATE 2nd YEAR MATHEMATICS (IIB)SYLLABUS

S.NO	CHAPTER	TOPICS	no of periods	REMARKS
1	Circles	Complete chapter	34	
2	System of Circles	Complete chapter	12	
3	Parabola	Introduction 3.1: Conic Sections, Standard forms and related problems	8	
4	Ellipse	Introduction 4.1: Equation of Ellipse in standard form, Parametric equation	6	
5	Hyperbola	Introduction Exercise 5(a) Section I and related examples	4	
6	Integration	Introduction 6.1: Integration as the inverse process of differentiation, standard forms and properties of integrals 6.2: Method of substitution (6.2.1 to 6.2.19) and related problems	16	
7	Definite Integrals	Introduction Exercise 7(a) Exercise 7(b) section I and III (section II Deleted)	18	
8	Differential equations	Introduction 8.1: Formation of differential equation – Degree and order of an ordinary differential equation 8.2: Solving of differential equations 8.2(a): Variable separable method Exercise	9	
	TOTAL		45	

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INTERMEDIATE 1st YEAR POLITICAL SCIENCE (CIVICS) SYLLABUS

Unit – I : Introduction Of Political Science

- 1.1 Meaning and Definition of Political Science
- 1.2 Nature of Political Science
- 1.3 Scope of Political Science
- 1.4 Significance of Political Science

Unit – II: State

- 2.1 Meaning and Definitions of State
- 2.2 Essential Elements of the State
- 2.3 Relation between the State and others Institutions.
 - a. State and Society,
 - b. State and Government,
 - c.State and Associations
- 2.4. Sovereignty; Meaning, Definitions, Characteristics and aspects of sovereignty.

Unit – III: Nation – Nationality and Nationalism

- 3.1 Nation
- 3.2 Nationality
- 3.3 Nationalism

Unit – IV:Political Concepts

- 4.1. Law
 - a. Meaning and definitions of Law,
 - b. Sources of Law,
 - c.Classification of Law,
 - d. Rule of Law
- 4.2. Liberty
 - a. Meaning and Definitions of Liberty,
 - b. Characteristics of Liberty,
 - c.Types of Liberty,
 - d. Safeguards of Liberty

4.3. Equality

- a. Meaning of Equality,
- b. Essential Features of Equality,
- c. Types of Equality

4.4. Justice

- a. Introduction and Definitions of Justice,
- b. Major concepts of Justice
- c. Types of Justice

Unit-V: Important Political Ideologies

- 5.4 Communism and its basic features
- 5.5 Gandhism and its basic features

Unit – VI : Rights And Duties

6.1. Rights

- a. Meaning and Definitions
- b. Important features of Rights
- c. Classification of Rights
- d. Safeguards of Rights
- e. Human Rights

6.2. Duties

- a. Meaning and Definitions
- b. Types of Duties

6.3. Relationship between Rights and Duties

Unit – VII: Citizenship

No Deletion

Unit – VIII : Democracy

- 8.1. Meaning and Definition
- 8.2. Features of Democracy
- 8.3. Types of Democracy
- 8.4. The essential conditions for the success of Democracy
- 8.5. The Role of Public opinion in Democracy

Unit – IX: Secularism

- 9.1 Meaning and Definitions
- 9.2 Origin of Secularism
- 9.3 Important features of Secularism
- 9.4 Secular State
- 9.5 Theocratic State
- 9.6 Secularism in Indian Context

Unit – X : Constitution

- 10.1 Meaning and Definitions of Constitution
- 10.2 Historical background
- 10.3 Essential features of Constitution
- 10.4 Classification of Constitutions

Unit – XI : Organs Of Government

- 11.1 Theory of separation of powers
- 11.2 Legislature: Powers and Functions
- 11.3 Executive : Powers and Functions
- 11.4 Judiciary : Powers and Functions

Unit – XII: Forms of Government

No Deletion

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INTERMEDIATE 2nd YEAR POLITICAL SCIENCE (CIVICS) SYLLABUS

Unit – I : Indian Constitution – Historical Background

1. Indian National Movement – Different Phases of National Movement
2. The Government of India Acts – 1909, 1919, 1935 & 1947
3. Constituent Assembly and Framing of Indian Constitution
4. Philosophy and Basic Features of Indian Constitution

Unit – II: Fundamental Rights and Directive Principles of State Policy

1. Fundamental Rights
2. Directive Principles of State Policy
3. Fundamental Duties

Unit – III: Union Government

1. The President of India
2. The Vice President of India
3. The Prime Minister of India
4. Union Council of Ministers
5. Parliament of India
6. Supreme Court of India

Unit – IV : State Government

1. The Governor
2. The Chief Minister
3. Council of Ministers in the State
4. Legislative Assembly
5. Legislative Council
6. High Court

Unit – V : Centre State Relations

1. Legislative Relations, Administrative Relations, Financial Relations
2. NITI Aayog

Unit – VI : Local Government

1. Grass root Democracy : 73rd Amendment, Grass root Political Panchayat Raj Institutions
2. 74th Amendment : Urban Local Self Governments
3. Panchayat and Urban Local Bodies in Telangana

Unit – VII : Election System in India

1. Central Election Commission
2. Powers and Functions of Election Commission

Unit – VIII : Contemporary Issues in Indian Politics

1. Corruptions, Anty Corruptions Acts

Unit – IX : Emergence of Telangana State

Formation of Hyderabad State in 1948, Political Developments : (1948 to 1956) ; Gentlemen's Agreement; Emergence of Andhra Pradesh; Violation of Safeguards; Telangana Agitation-1969 – Telangana Praja Samithi (TPS); Reaction to Mulki Judgement; Telangana Movement : 2001 to 2014; Role of JAC's in Telangana Movement – Process of A.P Reorganisation Act, 2014.

Unit – X : Smart Governance

1. SMART Governance
2. Good Governance
3. Lokpal, Lokayuktha

Unit – XI : India and the World

1. Basic Features of India's Foreign Policy
2. India and Non-Aligned Movement
3. United Nations Organization (UNO)

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INTERMEDIATE 1st YEAR PUBLIC ADMINISTRATION SYLLABUS

Unit No	Chapter No	Remaining chapter titles
	1	Introduction
I	1.0	Introduction
	1.1	Meaning
	1.2	Definition of Public Administration
	1.3	Nature of Public Administration
	1.4	Scope of Public Administration
	1.5	Importance of Public Administration
	2	Principles of Organisation
II	2.0	Introduction
	2.1	Hierarchy
	2.2	Division of Work
	2.4	Coordination
	2.6	Centralisation and Decentralisation
	2.7	Line & Staff Agencies
	2.8	Planning
	3	Theories of Organisation
III	3.0	Introduction
	3.1	Classical Theory
	3.2	Scientific Management Theory-F.W.Taylor
	3.3	Bureaucratic Theory-Max Weber
	3.6	Socio-Psychological Theory-Abraham Maslow
	3.7	Ecological Theory-F.W.Riggs
	4	Personnel Administration
IV	4.0	Introduction
	4.1	Recruitment, Selection
	4.2	Training
	4.5	Out Sourcing
	5	Financial Administration
V	5.0	Introduction
	5.1	Meaning and Importance of Financial Administration
	5.2	Principles of Budget
	5.3	Preparation of Budget
	5.4	Enactment of Budget
	6	Control over Administration
VI	6.0	Introduction
	6.1	Legislative control over Administration
	6.3	Judicial control over Administration
	6.4	Citizen control over Administration
	7	Office Management in Government
VII	7.0	Introduction
	7.1	Importance of Office Management
	7.2	Office Accommodation and Layout
	8	Contemporary Development in Public Administration
VIII	8.0	Introduction
	8.1	Globalisation and Public Management
	8.3	Good Governance
	8.4	E-Governance

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INTERMEDIATE 2ND YEAR PUBLIC ADMINISTRATION SYLLABUS

S.No	Unit No	Chapter No	Deleted chapter title
1	I	4	Constitutional frame work
2	II	6	Central secretariat, cabinet secretariat, PMO
3	II	8	Working of Judiciary-structure and functions
4	III	10	Union Public Service Commission
5	IV	14	State secretariat and Directorate
6	V	18	Role Cooperatives and SHG's in development
7	VI	21	Social security and food security
8	VII	27	Public Private partnership

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INTERMEDIATE 1st YEAR SANSKRIT SYLLABUS

S.No.	Lesson	
पद्यभागः (Poetry)		
1.	भर्तृहरिसुभाषितानि	*1, *3, *4, *6, *7, *8, *9 and *11 to *20 Slokas
2.	रामो विग्रहवान् धर्मः	
5.	गानपरीक्षा	
6.	मातृगीतम्	
गद्यभागः (Prose)		
1.	दयालुः दानशीलः नागार्जुनः	
3.	टिट्टिभदम्पतीकथा	
4.	शरणागतरक्षणम्	
6.	महान् जीवशास्त्रज्ञो जगदीशचन्द्रबोसः	
उपवाचकम् (Non-Detailed)		
1.	उद्योगिनं पुरुषसिंहमुपैति लक्ष्मीः	
2.	भाग्यचक्रम्	
3.	किमस्ति पेटिकायाम्	
6.	विद्वान् कुलीनो न करोति गर्वम्	
संवित्परीक्षा		
	गतानुगतिको लोकः	
	परानुकारी गर्दभः	
	लुब्धः कर्षकः	
	हितोपदेशो मूर्खाय	
व्याकरणभागः (Grammar)		
1.	शब्दरूपाणि	
2.	धातुरूपाणि	
3.	सन्धयः	
अनुवादवाक्यानि (Translation Sentences)		
1 to 18 sentences		

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INTERMEDIATE 2nd YEAR SANSKRIT SYLLABUS

S.No.	Lesson	
पद्यभागः (Poetry)		
2.	विक्रमाङ्कस्य औदार्यम्	
3.	साधुवर्तनम्	*1, *5, *8 and *14
4.	गायत्रीनीतिगीतावलिः	*1, *5, *7 and *11
6.	नृसिंहाविर्भावः	
गद्यभागः (Prose)		
2.	भ्रातृवात्सल्यम्	
3.	सुहृद्भेदः	
5.	वृक्षरक्षिका पितामही	
6.	भारतभूषा वीरयोषा	
उपवाचकम् (Non-Detailed)		
1.	न्यासरक्षा	
3.	आनूरवम्	
व्याकरणभागः (Grammar)		
1.	पत्रलेखनम्	1, 3, 4
2.	सन्धयः	
3.	शब्दरूपाणि	
4.	समासाः	
5.	वाक्यशुद्धीकरणम्	1 to 15 sentences

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INTERMEDIATE 2nd YEAR ENGLIS SYLLABUS

MODULE / UNIT	Name of the Unit	Writer's Name	Retained Pages From ... to
Module : I Unit 1 Unit 3 Unit 4	Prose : Dancing in the Rain Short Story : The Boy Who Broke the Bank Comprehension and Composition : Study Skills – I : Section – A : Punctuation Section – B : Vocabulary – 4. One-word substitutes [Except a Part of it 34 – 40 (Page – 40 : First NINE Lines)] Section – C : Understanding Non-verbal Data [Except TABLES; TREE DIAGRAMS; FLOW CHARTS – From 51 – 57] Section – D : Understanding Advertisements Revision Test – I	Ajim Premji Ruskin Bond --- --- --- --- ---	1 – 12 17 – 24 25 – 33 40 – 47 48 – 51 58 – 62 63 – 66
Module : II Unit 5 Unit 6 Unit 7 Unit 8	Prose : Opportunities for Youth Poetry : The Magical Earth Short Story : Parige Composition : Letter Writing – Formal Letters [Except Informal Letters – From 103 – 108] Revision Test – II	Jawaharlal Nehru Gulzar Vattikota Alwar Swamy --- ---	67 – 79 80 – 84 85 – 93 94 – 102 109 – 113

Module : III			
Unit 9	Prose : To Sir with Love	E.R.Braithwaite	114 – 123
Unit 10	Poetry : Polonius' Advice to his Son	Shakespeare	124 – 129
Unit 11	Short Story : My Elder Brother	Prem Chand	130 – 137
Unit 12	Comprehension and Composition :		
	Section – A : Filling in forms	---	138 – 147
	Section – B : Resume / CV / Bio-data and Cover Letters	---	148 – 158
	Understanding Job Advertisements		
	Revision Test – III	---	159 – 163
Module : IV			
Unit 14	Poetry : Footprints on the Sand	Mary Stevenson	175 – 178
Unit 15	Short Story : The Awakening	Shashi Deshpande	179 – 187
Unit 16	Comprehension and Composition :		
	Section A – Dialogue writing	---	188 – 198
	Section B – Study Skills – II: Word-stress	---	199 – 206
	Revision Test – IV	---	207 – 210
Module : V			
Unit 18	Poetry : What Kind of Place?	Uma Parameswaran	227 – 232
Unit 20	Composition : Describing processes	---	241 – 245
Module : VI			
Unit 21	Comprehension and Composition:		
	Section A – Study Skills – III: Idioms and Phrases	---	251 – 259
	Section B – Note-making	---	260 – 270
	Section C – Verb Patterns	---	271 – 277
Unit 22	Comprehension Passages		
	[Except S.Nos. 12 &13 – From 284 – 285]	---	278 – 284
	Model Question Paper	---	286 – 292

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INTERMEDIATE 2nd YEAR ENGLISH MODERN LANGUAGE (ML) SYLLABUS

I. PROSE

1. Playing the English Gentleman	M K Gandhi	3 – 11
2. The Bet	Anton Chekov	12 – 25
4. On Smiles	A G Gardiner	40 – 48
6. Sale	Anita Desai	65 – 78

II. POETRY

1. Ulysses	Alfred Lord Tennyson	103 – 110
3. The Unknown Citizen	W H Auden	118 – 124
4. To the Indians Who Died in South Africa	T S Eliot	125 – 129
5. The Night of the Scorpion	Nissim Ezekiel	130 – 134
7. Telephone Conversation	Wole Soyinka	139 – 144

III. NON DETAILED TEXT

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INTERMEDIATE 2nd YEAR PHYSICS SYLLABUS

CHAPTER – 1: WAVES

- 1.1 Introduction
- 1.2 Transverse and Longitudinal waves
- 1.3 Displacement relation in a progressive wave
- 1.4 Speed of a Travelling Wave
- 1.5 The principle of superposition of waves,
- 1.6 Reflection of waves
- 1.7 Beats

CHAPTER– 2: RAY OPTICS AND OPTICAL INSTRUMENTS

- 2.1 Introduction
- 2.3 Refraction
- 2.4 Total Internal Reflection
- 2.5 Refraction at Spherical Surfaces and by Lenses.
- 2.6 Refraction through a prism
- 2.7 Dispersion by a Prism
- 2.8 Some Natural phenomena due to Sunlight (except 2.8.2)
- 2.8.1 The Rainbow
- 2.9 Optical Instruments

CHAPTER – 3: WAVE OPTICS

- 3.1 Introduction
- 3.2 Huygens Principle
- 3.3 Refraction and Reflection of plane waves using Huygens Principle
- 3.4 Coherent and Incoherent Addition of waves
- 3.5 Interference of Light waves and Young's Experiment
- 3.6 Diffraction (except 3.6.3)
- 3.6.1 The single slit
- 3.6.2 Seeing the single slit diffraction pattern
- 3.6.4 The validity of ray optics

CHAPTER – 4: ELECTRIC CHARGES AND FIELDS

- 4.1 Introduction
- 4.2 Electric Charges
- 4.3 Conductors and Insulators
- 4.4 Charging by Induction
- 4.5 Basic Properties of Electric Charge
- 4.6 Coulomb's Law
- 4.7 Forces between Multiple charges
- 4.8 Electric Field
- 4.9 Electric Field Lines
- 4.10 Electric Flux
- 4.11 Electric Dipole
- 4.12 Dipole in a uniform external field
- 4.13 Continuous Charge Distribution
- 4.14 Gauss's Law
- 4.15 Application of Gauss' Law (except 4.15.3)
 - 4.15.1 Field due to an infinitely long straight uniformly charged wire
 - 4.15.2 Field due to a uniformly charged infinite plane sheet

CHAPTER-5: ELECTROSTATIC POTENTIAL AND CAPACITANCE

- 5.1 Introduction
- 5.2 Electrostatic Potential
- 5.3 Potential due to a point charge
- 5.4 Potential due to an Electric Dipole
- 5.5 Potential due to a System of Charges
- 5.6 Equipotential Surfaces
- 5.7 Potential Energy of a System of Charges
- 5.8 Potential Energy in an External field
- 5.9 Electrostatics of Conductors
- 5.10 Dielectrics and Polarisation
- 5.11 Capacitors and Capacitance
- 5.12 The Parallel Plate Capacitor
- 5.13 Effect of Dielectric on Capacitance
- 5.14 Combination of Capacitors
- 5.15 Energy Stored in a Capacitor

CHAPTER – 6: CURRENT ELECTRICITY

- 6.1 Introduction
- 6.2 Electric current
- 6.3 Electric current in conductors
- 6.4 Ohm's Law

- 6.5 Drift Electrons and Origin of Resistivity
- 6.6 Limitations of Ohms's Law
- 6.8 Temperature Dependence of Resistivity
- 6.9 Electric Energy, Power
- 6.11 Cells, emf, Internal Resistance
- 6.12 Cells in Series and in Parallel
- 6.13 Kirchoff's Laws
- 6.14 Wheatstone Bridge (**Qualitative treatment only**)
- 6.15 Meter Bridge
- 6.16 Potentiometer

CHAPTER – 7: MOVING CHARGES AND MAGNETISM

- 7.1 Introduction
- 7.2 Magnetic Force
- 7.3 Motion in a Magnetic field
- 7.5 Magnetic Field due to a Current Element, Biot-Savart Law
- 7.6 Magnetic Field on the Axis of a Circular Current Loop
- 7.7 Ampere's Circuital Law
- 7.8 The Solenoid and the Toroid
- 7.9 Force between two Parallel Currents, The Ampere(Unit)
- 7.10 Torque on Current Loop, Magnetic Dipole
- 7.11 The Moving Coil Galvanometer

CHAPTER – 8: MAGNETISM AND MATTER

- 8.1 Introduction
- 8.2 The Bar Magnet (**except 8.2.2, 8.2.3**)
 - 8.2.1 The magnetic field lines
 - 8.2.4 The electrostatic analog
- 8.3 Magnetism and Gauss' Law
- 8.4 The Earth's Magnetism
- 8.5 Magnetisation and Magnetic Intensity

CHAPTER – 9: ELECTROMAGNETIC INDUCTION

- 9.1 Introduction
- 9.2 The experiments of Faraday and Henry
- 9.3 Magnetic Flux
- 9.4 Faraday's Law of Induction
- 9.5 Lenz's Law and Conservation of Energy
- 9.6 Motional Electromotive Force
- 9.7 Energy consideration : A Quantitative Study

- 9.8 Eddy Currents
- 9.9 Inductance
- 9.10 AC Generator

CHAPTER – 10: ALTERNATING CURRENT :

- 10.1 Introduction
- 10.2 AC voltage applied to a Resistor
- 10.3 Representation of AC Current and Voltage by Rotating Vectors- Phasors
- 10.4 AC voltage applied to an Inductor
- 10.5 AC voltage applied to a Capacitor
- 10.6 AC voltage applied to a Series LCR Circuit
- 10.8 LC Oscillations (**Qualitative treatment only**)
- 10.9 Transformers

CHAPTER – 11: ELECTRO MAGNETIC WAVES

- 11.1 Introduction
- 11.3 Electro Magnetic Waves (**qualitative treatment only**)
- 11.4 Electromagnetic Spectrum

CHAPTER–12: DUAL NATURE OF RADIATION AND MATTER

- 12.1 Introduction
- 12.2 Electron Emission
- 12.3 Photoelectric Effect
- 12.4 Experimental Study of Photoelectric Effect
- 12.5 Photoelectric Effect and Wave Theory of Light
- 12.6 Einstein's Photoelectric Equation: Energy Quantum of Radiation
- 12.7 Particle Nature of Light : The Photon
- 12.8 Wave Nature of Matter

CHAPTER–13: ATOMS

- 13.1 Introduction
- 13.2 Alpha-particle Scattering and Rutherford's Nuclear model of Atom
- 13.3 Atomic Spectra
- 13.4 Bohr Model of the Hydrogen Atom
- 13.5 The Line Spectra of the Hydrogen Atom
- 13.6 De Broglie's Explanation of Bohr's Second Postulate of Quantization

CHAPTER–14: NUCLEI

- 14.1 Introduction
- 14.2 Atomic Masses and Composition of Nucleus
- 14.3 Size of the Nucleus
- 14.4 Mass Energy and Nuclear Binding Energy (except 14.4.2)
 - 14.4.1 Mass- Energy
- 14.5 Nuclear Force
- 14.7 Nuclear energy

CHAPTER–15:

SEMICONDUCTOR ELECTRONICS: MATERIALS, DEVICES AND SIMPLE CIRCUITS

- 15.1 Introduction
- 15.2 Classification of Metals, Conductors and Semiconductors (**qualitative ideas only**)
- 15.3 Intrinsic Semiconductor
- 15.4 Extrinsic Semiconductor
- 15.5 p – n junction
- 15.6 Semi conductor diode
- 15.7 Application of Junction Diode as a Rectifier
- 15.8 Special Purpose p-n Junction Diodes (except 15.8.1)
 - 15.8.2 Optoelectronic junction devices
- 15.9 Junction Transistor (except 15.9.3, 15.9.4, 15.9.5)
 - 15.9.1 Transistor structure and action
 - 15.9.2 Basic transistor circuit configuration and transistor characteristics
- 15.10 Digital Electronics and Logic Gates
- 15.11 Integrated Circuits

CHAPTER– 16: COMMUNICATION SYSTEMS

- 16.1 Introduction
- 16.2 Elements of communication system
- 16.3 Basic Terminology used in Electronic Communication Systems
- 16.4 Bandwidth of Signals
- 16.5 Bandwidth of Transmission Medium
- 16.6 Propagation of Electromagnetic Waves
- 16.7 Modulation and its Necessity
- 16.8 Amplitude Modulation
- 16.9 Production of Amplitude Modulated Wave
- 16.10 Detection of Amplitude Modulated Wave

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ACADEMIC YEAR 2020-2021

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INTERMEDIATE 2nd YEAR PHYSICS PRACTICALS SYLLABUS

1. Velocity of sound by Resonance apparatus
2. Determination of focal length of a Convex lens
3. Refractive index of prism material (i-d curve)
4. Meter Bridge
5. Magnetic lines of force
6. Ohm's law
7. P-N Junction diode

తెలంగాణ స్టేట్ బోర్డ్ ఆఫ్ ఇంటర్మీడియట్ ఎడ్యుకేషన్

ఇంటర్మీడియట్ మొదటి సంవత్సరం

ఆధునిక భాష - భాగం III

'ఉషోదయం' తెలుగు పాఠ్యపుస్తకం

కోవిడ్-19 మహమ్మారి కారణంగా

ఈ విద్యా సంవత్సరం (2020-21) నిర్ణయించిన పాఠ్యాంశాలు (70%)

కవిత్వవిభాగం

1. ఘోషయాత్ర - ఎఱ్ఱన
4. వృషాధిప శతకం - పొల్లూరికి సోమనాథుడు
5. మస్తాష్కంలో లేబోరేటరీ - దాశరథి కృష్ణమాచార్య

గద్యవిభాగం

1. జానపద సాహిత్యంలో వీరగాథలు - పేర్వారం జగన్నాథం
2. శ్రీనాథుని చిక్కులబెట్టిన పద్యం - డా॥ కపిలవాయి లింగమూర్తి
5. మన వూళ్ళో కూడానా? - కాంచనపల్లి చినవెంకటరామారావు

సాహిత్య విమర్శ

వ్యాకరణం

ఛందస్సు

అలంకారాలు

తెలంగాణ స్టేట్ బోర్డ్ ఆఫ్ ఇంటర్మీడియట్ ఎడ్యుకేషన్

ఇంటర్మీడియట్ రెండవ సంవత్సరం

ఆధునిక భాష - భాగం III

'రసోదయం' తెలుగు పాఠ్యపుస్తకం

కోవిడ్-19 మహమ్మారి కారణంగా

ఈ విద్యా సంవత్సరం (2020-21) నిర్ణయించిన పాఠ్యాంశాలు (70%)

పద్యభాగం

1. ప్రవరుని ఆతిథ్యం - అల్లసాని పెద్దన
2. స్థితప్రజ్ఞుడు - పరశురామపంతుల లింగమూర్తి
4. ఉత్తమ ఉపాధ్యాయుడు - నీలా జంగయ్య
5. కాంక్ష - మజహర్ మెహది

గద్యభాగం

1. ప్రజల మనిషి - పరామర్శ - సి. రాఘవాచారి
3. ప్రజాస్వామ్య కవి - కాళోజి - ముకురాల రామారెడ్డి
4. శ్రామిక గేయాలు - డా॥ గోపు లింగారెడ్డి

వ్యాకరణాంశాలు

1. భాషాశాస్త్రం
2. వ్యాకరణము

కథానుధ (ఉపవాచకం)

1. నిజమైన మనుషులు - చక్రవర్తి రంగస్వామి
2. ముమూర్షువులు - వల్లపురెడ్డి బుచ్చారెడ్డి
3. ఒక ఆత్మకథ - ఎన్.కె. రామారావు

తెలంగాణ స్టేట్ బోర్డ్ ఆఫ్ ఇంటర్మీడియట్ ఎడ్యుకేషన్

ఇంటర్మీడియట్ మొదటి సంవత్సరం

ద్వితీయ భాష - భాగం II

‘నవోదయం’ తెలుగు పాఠ్యపుస్తకం

కోవిడ్-19 మహమ్మారి కారణంగా

ఈ విద్యా సంవత్సరం (2020-21) నిర్ణయించిన పాఠ్యాంశాలు (70%)

కవిత్య విభాగం

1. విద్యాలక్ష్యం - నన్నయ
2. మిత్రధర్మం - బమ్మెర పోతన
3. శతకసుధ - ఏనుగు లక్ష్మణకవి
- ధర్మపురి శేషప్ప
- మారద వెంకయ్య
4. అచలం - దున్న ఇద్దాసు
5. నాపేరు ప్రజాకోటి - దాశరథి కృష్ణమాచార్యులు

గద్య విభాగం

3. ప్రాచీన సాహిత్యంలో మానవతావాదం - ఆచార్య రవ్వా శ్రీహరి
4. బతుకమ్మ పండుగ - డా॥ రావి ప్రేమలత
5. తెలంగాణ జాతీయాలు - వేముల పెరుమాళ్ళు
6. రాజాబహద్దూర్ వేంకటరామారెడ్డి సేవాత్మరత - సురవరం ప్రతాపరెడ్డి

వ్యాకరణాంశాలు

1. సంధులు
2. సమాసాలు
3. లేఖారచన
4. సాధారణ వ్యాసాలు
5. స్థూల అవగాహన
6. అనువాదం

కథాలహరి (తెలుగు ఉపవాచకం)

1. గొల్ల రామప్ప - పి.వి. నరసింహారావు
3. స్నేహలతాదేవి లేఖ - డా॥ ముదిగంటి సుజాతారెడ్డి
4. ఇన్నానియట్ - డా॥ దిలావర్

మాదిరి ప్రశ్నాపత్రం

తెలంగాణ స్టేట్ బోర్డ్ ఆఫ్ ఇంటర్మీడియట్ ఎడ్యుకేషన్

ఇంటర్మీడియట్ రెండవ సంవత్సరం

ద్వితీయభాష - భాగం II

‘శుభ్రోదయం’ తెలుగు పాఠ్యపుస్తకం

కోవిడ్-19 మహమ్మారి కారణంగా

ఈ విద్యా సంవత్సరం (2020-21) నిర్ణయించిన పాఠ్యాంశాలు (70%)

పద్యభాగం

1. విదుర నీతి - తిక్కన సోమయాజి
2. బెజ్జమహాదేవికథ - పాల్కురికి సోమన
3. గోల్కొండ కవితాప్రభ - డా॥ సురవరం ప్రతాపరెడ్డి
5. రవ్వలపతాక - తిరుమల శ్రీనివాసాచార్య
6. ఆరుద్రపురుగు - కృష్ణమూర్తి యాదవ్

గద్యభాగం

1. భాష-చరిత్ర-సంస్కృతి - డా॥ ఇరివెంటి కృష్ణమూర్తి
2. ఆదర్శమూర్తి-అరిగె రామస్వామి - ఎమ్.ఎల్. నరసింహారావు
4. జాతీయోద్యమంలో స్త్రీలు - డా॥ తిరునగరి దేవకీదేవి
5. మనమాట తీపి - నలిమెల భాస్కర్

వ్యాకరణాంశాలు

1. అలంకారాలు
2. ఛందస్సు
3. భాషాభాగాలు
4. సంక్షిప్తీకరణ
5. సంభాషణ రచనా నైపుణ్యం

నాటక ప్రవంతి (ఉపవాచకం)

1. దుష్టపంచాయితీ - ఒద్దిరాజు సోదరులు
2. తొలకరి - కె.ఎల్. నరసింహారావు

ACADEMIC YEAR 2020-2021

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INTERMEDIATE 2nd YEAR URDU (SL) SYLLABUS

		شاعری
فیض احمد فیض	از	❖ پہلی سی محبت
امجد حیدر آبادی	از	❖ رباعیات
داغ دہلوی	از	❖ غزل
خورشید احمد جامی	از	❖ غزل
		نثر
سعادت حسن منٹو	از	❖ منظور
مولوی عبدالحق	از	❖ نام دیومالی
شیلاراج	از	❖ نواب میر عثمان علی خان
		❖ آصف جاہ سابع کی رواداری
عابد معز	از	❖ غذا میں چکنائی
		قواعد
		❖ واحد، جمع، سابقے اور لاحقے
		❖ علم بیان
		❖ صنائع
		❖ محاورے اور ضرب الامثال
		❖ روداد نگاری
		❖ خطوط نویسی
		سرسری مطالعہ
رابندر ناتھ ٹیگور	از	❖ کابلی والا
عائق شاہ	از	❖ سونے کی اینٹ

ACADEMIC YEAR 2020-2021

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INTERMEDIATE 1st YEAR URDU (SL) SYLLABUS

شاعری

❖	بزم انجم	از	علامہ اقبال
❖	ترانہ دکن	از	سکندر علی وجد
❖	غزل	از	مومن خان مومن
❖	غزل	از	ابن انشا
❖	سیر پہلے درویش کی	از	میر امن
❖	پنچایت	از	پریم چند
❖	میں نے لکھنا کیسے شروع کیا	از	ابن صفی
❖	محبوب حسین جگر	از	یوسف ناظم

قواعد

❖	اسم
❖	ضمیر اور صفت
❖	جنس
❖	فعل
❖	عبارت فہمی
❖	ترجمہ

سرسری مطالعہ

❖	میر اسکول	از	موہن داس کرم چند گاندھی
❖	انار کے چودہ دانے	از	ڈاکٹر سید محی الدین قادری زور
❖	نازاٹھانے کو ہم رہ گئے ڈاکٹروں کے	از	مجتبیٰ حسین

ACADEMIC YEAR 2020-2021

70% CONTENT IN VIEW OF COVID-19 PANDEMIC

INTERMEDIATE 1st YEAR URDU MODERN LANGUAGE (ML) SYLLABUS

		حصہ نثر
ہارون خاں شیروانی	از	دکنی کلچر (مضمون)
ڈاکٹر محمد علی اثر	از	عہد عثمانی کا اردو ادب (مضمون)
مرزا رجب علی بیگ سرور	از	جان عالم کا توتا (داستان)
پریم چند	از	بے غرض محسن (افسانہ)
عوض سعید	از	منی تبسم (خاکہ)
فکر تونسوی	از	اور مجھے ایوارڈ ملا

		حصہ غزل
قلی قطب شاہ	از	غزل
ولی	از	غزل
انشاء اللہ خاں انشاء	از	غزل
امیر مینائی	از	غزل
حسرت موہانی	از	غزل
سعید شہیدی	از	غزل
شاذ تمکنت	از	غزل

		حصہ نظم
نظیر اکبر آبادی	از	پیسہ
شیخ محمد اقبال	از	ایک نوجوان کے نام
مخدوم محی الدین	از	انتظار
سکندر علی وجد	از	حیدرآباد
سلیمان خطیب	از	اٹھائیس تاریخ
کینی اعظمی	از	عادت
امجد حیدر آبادی	از	رباعیات امجد

ACADEMIC YEAR 2020-2021

70% CONTENT IN VIEW OF COVID-19 PANDEMIC

INTERMEDIATE 2nd YEAR URDU MODERN LANGUAGE (ML) SYLLABUS

حصہ ”الف“

1. اردو زبان کے آغاز کے مختلف نظریات
تلخیص و ترتیب
4. دارالترجمہ جامعہ عثمانیہ
از بدر شکیب
5. ادارہ ادبیاتِ اردو
از خواجہ حمید الدین شاہد

حصہ ”ب“

6. گولکنڈہ میں شعر و ادب کا نشوونما
از ڈاکٹر سید محی الدین قادری زور
7. ماہِ لقا بانی چندا
از ابوالفیض سحر
10. تنقید اور اس کے دبستان
از نور الحسن نقوی

حصہ ”ج“

12. صحافت کیا ہے؟
تلخیص و ترتیب
14. بچوں کے رسائل و جرائد
تلخیص و ترتیب

حصہ ”د“

15. فصاحت بلاغت

حصہ ”ه“

16. رپورتاژ : پودے
از کرشن چندر

TELANGANA STATE BOARD OF INTERMEDIATE EDUCATION, HYDERABAD

ACADEMIC YEAR 2020-2021

70% CONTENT IN VIEW OF COVID-19 PANDEMIC

INTERMEDIATE 1st YEAR ZOOLOGY SYLLABUS

UNIT- I: ZOOLOGY - Diversity of Living World

- 1.1. What is life?
- 1.2. Nature, Scope & meaning of zoology
- 1.3. Branches of Zoology
- 1.6. Levels or Hierarchy of classification
- 1.7. Nomenclature
- 1.8. Species concept
- 1.9. Kingdom Animalia
- 1.10. Biodiversity – Meaning and distribution (Genetic diversity, Species diversity, Ecosystem diversity (alpha, beta and gamma), other attributes of biodiversity, role of biodiversity, threats to biodiversity, methods of conservation, IUCN Red data books, Conservation of wild life in India – Legislation, Preservation, Organisations, Threatened species.

UNIT- II: STRUCTURAL ORGANIZATION IN ANIMALS

- 2.1. Levels of organization, Multicellularity: Diploblastic & Triploblastic conditions
- 2.2. Asymmetry, Symmetry: Radial symmetry, and Bilateral symmetry
- 2.3. Acoelomates, Pseudocoelomates and Eucoelomates: Schizo & Entero coelomates
- 2.4. Tissues: Epithelial, Connective, Muscular and Nervous tissues. (make it a little more elaborative)

UNIT- III: ANIMAL DIVERSITY - I:

INVERTEBRATE PHYLA General Characters – Strictly restrict to 8 salient features only classification up to Classes with two or three examples – Brief account only

- 3.1. Porifera
- 3.2. Cnidaria
- 3.3. Ctenophora

- 3.4. Platyhelminthes
- 3.5. Nematoda
- 3.6. Annelida (Including Brief type study of Earthworm)
- 3.7. Arthropoda
- 3.8. Mollusca
- 3.9. Echinodermata
- 3.10. Hemichordata

UNIT- IV: ANIMAL DIVERSITY - II: PHYLUM : CHORDATA

- 4.0. Phylum :Chordata
- 4.1. Sub phylum: Urochordata
- 4.2. Sub phylum: Cephalochordata
- 4.3. Sub phylum : Vertebrata
- 4.4. Super class: Agnatha
 - 4.4.1. Class Cyclostomata
- 4.5. Super class: Gnathostomata
 - 4.5.1. Super class pisces
 - 4.5.2. Class: Chondrichthyes
 - 4.5.3. Class: Osteichthyes
- 4.6. Tetrapoda
 - 4.6.1. Class: Amphibia (Including brief type study of Frog)
 - 4.6.2. Class: Reptilia
 - 4.6.3. Class: Aves
 - 4.6.4. Class: Mammalia

UNIT- VI : BIOLOGY IN HUMAN WELFARE

- 6.1. Parasitism and parasitic adaptation
- 6.2. Health and disease: introduction (follow NCERT) Life cycle, Pathogenecity, Treatment & Prevention (Brief account only)
 - 1. *Entamoeba histolytica*
 - 2. *Plasmodium vivax*
 - 3. *Ascaris lumbricoides*
 - 4. *Wuchereria bancrofti*
- 6.3. Brief account of pathogenecity, treatment & prevention of Typhoid, Pneumonia, Common cold, & Ring worm.
- 6.4. Drugs and Alcohol absuse

UNIT- VIII : ECOLOGY & ENVIRONMENT

- 8.1. Organisms and Environment: Ecology, population, communities, habitat, niche, biome and ecosphere (definitions only)
- 8.2. Ecosystem: Elementary aspects only Abiotic factors- Light, Temperature & Water (Biological effects only), Ecological adaptations
- 8.3. Population interactions
- 8.5.1 Biotic factors
- 8.5.2 The food chains
- 8.6.2 Nutrient cycles - Nitrogen cycle (Brief account)
- 8.7 Population attributes: Growth, Natality and Mortality, Age distribution, Population regulation.

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INTERMEDIATE 1st YEAR ZOOLOGY PRACTICAL SYLLABUS

I.	Study of Parts of a Compound microscope
II.	Study of Invertebrate slides and identification with giving Classification and reasons
1. INVERTEBRATE SLIDES	
	1. Amoeba (Whole mount)
	2. Euglena (Whole mount)
	3. Paramecium (Whole mount)
	4. Hydra (Whole mount)
	5. Liver Fluke (Whole mount)
2. HISTOLOGICAL SLIDES	
	1. Squamous Epithelium
	2. Columnar Epithelium
	3. T.S. of Cartilage
	4. T.S. of Bone
	5. Blood Smear of Mammals
	6. Striated Muscles
	7. Unstriated Muscles
III.	Study of Invertebrate Specimens and identification with giving Classification and reasons
2. INVERTEBRATE SPECIMENS	
	1. Euspongia
	2. Aurelia
	3. Metridium
	4. Taenia solium
	5. Ascaris – Male

	6. Ascaris – Female
	7. Nereis
	8. Leech
	9. Earth worm
	10. Scolopendra
	11. Julus
	12. Palaemon
	13. Araenia
	14. Palamneus
	15. Unio
	16. Silk moth/ Silk Worm
	17. Honey Bee
	18. Pila
	19. Asterias
IV.	DISSECTIONS
	Note: No Dissection of live animals. The student has to draw the diagram of the system that is displayed or projected.
	1. Earthworm – Digestive System
	2. Earthworm – Nervous System
	3. Earthworm – Sperm thecae

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ACADEMIC YEAR 2020-2021

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INTERMEDIATE 2nd YEAR ZOOLOGY PRACTICAL SYLLABUS

A. VERTEBRATE SLIDES OF MAMMAL

1. L.S. of kidney
2. T.S. of testis
3. T.S. of ovary

B. VERTEBRATE SPECIMENS

1. Shark
2. Rohu
3. Catla
4. Labeo
5. Frog
6. Sea snake
7. Naja naja
8. Viper
9. Pigeon
10. Rabbit

C. PHYSIOLOGY EXPERIMENTS

1. Demonstration of digestion of starch by salivary amylase.
2. Identification of presence of glucose in the given samples.
3. Identification of presence of albumin in the given samples.

D. DISSECTIONS AS MODELS THROUGH UNLABELLED MODELS OR CHARTS

(Human)

1. Arterial system
2. Venous system
3. Urinogenital system

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INTERMEDIATE 2nd YEAR ZOOLOGY SYLLABUS

UNIT-I Human Anatomy and Physiology-I

Unit I B : Breathing and Respiration

Respiratory organs in animals; Respiratory system in humans; Mechanism of breathing and its regulation in humans - Exchange of gases, transport of gases and regulation of respiration; Respiratory volumes; Respiratory disorders: Asthma, Emphysema, Occupational respiratory disorders - Asbestosis, Silicosis, Siderosis, Black Lung Disease in coal miners.

UNIT II : Human Anatomy and Physiology-II

Unit II A: Body Fluids and Circulation

Covered in I year composition of lymph and functions; Clotting of blood; Human circulatory system - structure of human heart and blood vessels; Cardiac cycle, cardiac output, double circulation; regulation of cardiac activity; Disorders of circulatory system: Hypertension, coronary artery disease, angina pectoris, heart failure.

Unit II B: Excretory products and their elimination

Modes of excretion - Ammonotelism, Ureotelism, Uricotelism; Human excretory system - structure of kidney and nephron; Urine formation, osmoregulation; Regulation of kidney function -Renin-Angiotensin - Aldosterone system, Atrial Natriuretic Factor, ADH and diabetes insipidus; Role of other organs in excretion; Disorders: Uraemia, renal failure, renal calculi, nephritis, dialysis using artificial kidney.

UNIT III: Human Anatomy and Physiology-III

Unit IIIA: Muscular and Skeletal system

Types of movement, the muscle, mechanism of muscle contraction, muscle fatigue, cori cycle, types of muscle fibres.

Unit III B: Neural control and co-ordination

Nervous system in human beings - Central nervous system, Peripheral nervous system and Visceral nervous system; Generation and conduction of nerve impulse.

UNIT IV: Human Anatomy and Physiology-IV

Unit IVA: Endocrine system and chemical co-ordination

Endocrine glands and hormones; Human endocrine system -Hypothalamus, Pituitary, Pineal, Thyroid, Parathyroid, Adrenal, Pancreas, Gonads; Mechanism of hormone action (Elementary idea only); Role of hormones as messengers and regulators; Hypo and Hyper activity and related disorders: Common disorders -Dwarfism, acromegaly, cretinism, goiter, exophthalmic goiter, diabetes, Addison's disease, Cushing's syndrome. (Diseases & disorders to be dealt in brief).

Unit IVB: Immune system

Basic concepts of Immunology - Types of Immunity - Innate Immunity, Acquired Immunity, Active and Passive Immunity, Cell mediated Immunity and Humoral Immunity, Interferon, HIV and AIDS.

UNIT V: Human Reproduction

Unit VA: Human Reproductive System

Male and female reproductive systems; Microscopic anatomy of testis & ovary; Gametogenesis " Spermatogenesis & Oogenesis; Menstrual cycle; Fertilization, Embryo development up to blastocyst formation, Implantation; Pregnancy, placenta formation, Parturition, Lactation (*elementary idea*).

Unit VB: Reproductive Health

Need for reproductive health and prevention of sexually transmitted diseases (STD); Birth control - Need and methods, contraception and medical termination of pregnancy (MTP); Amniocentesis; infertility and assisted reproductive technologies - IVF-ET, ZIFT, GIFT (*elementary idea for general awareness*).

UNIT VI: Genetics

Heredity and variation: Mendel's laws of inheritance with reference to *Drosophila melanogaster* Grey, Black body colour; Long, Vestigial wings), Pleiotropy; Multiple alleles: Inheritance of blood groups and Rh-factor; Co-dominance (Blood groups as example); Elementary idea of polygenic inheritance; Skin colour in humans (refer Sinnott, Dunn and Dobzhansky); Sex determination - in humans, birds, *Fumea* moth, genic balance theory of sex determination in *Drosophila melanogaster* and honey bees; Sex linked inheritance - Haemophilia, Colour blindness; Mendelian disorders in humans: Thalassaemia, Haemophilia, Sick cell anaemia, cystic fibrosis PKU, Alkaptonuria; Chromosomal disorders -Down's syndrome, Turner's syndrome and Klinefelter syndrome; Genome, Human Genome Project and DNA Finger Printing,

UNIT VII: Applied Biology

Apiculture; Animal Husbandry: Pisciculture, Poultry management, Dairy management; Animal breeding; Application of Biotechnology in health: Human insulin and vaccine production ; Gene Therapy; Transgenic animals; Vaccines, MABs, Cancer biology, stem cells.

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