

**SGT - URDU
SYLLABUS**

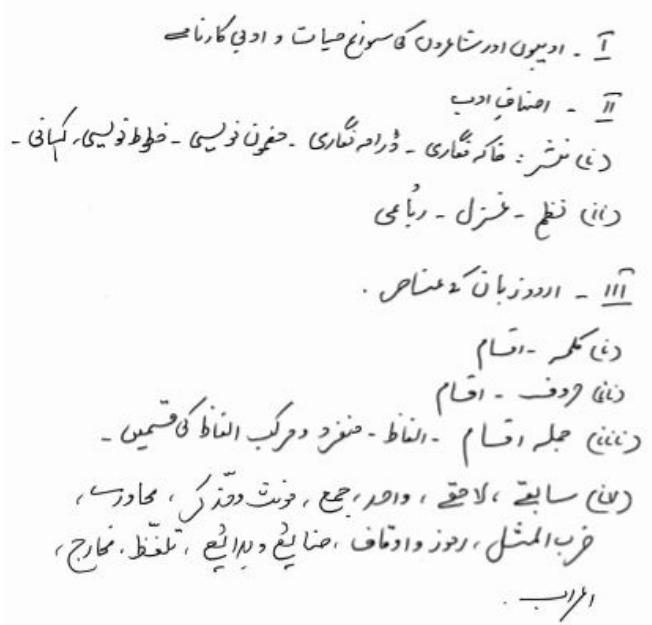
Part - I

GENERAL KNOWLEDGE AND CURRENT AFFAIRS (Marks: 10)

Part – II

PERSPECTIVES IN EDUCATION (Marks: 10)

1. Education: Meaning, Aims of Education, Functions of Education, Types of Education; Constitutional Provisions, important articles and their Educational implications for General and disabled population; Universalization of Elementary Education - Schemes and Programmes to achieve UEE like OBB, APPEP, DPEP, SSA, Open schools, Mid-day-Meals; Recommendations of various committees and commissions during preindependent and post-independent period.
2. Teacher Empowerment: Meaning, interventions for empowerment, Professional code of conduct for teachers, Teacher motivation, Professional development of Teachers and Teacher organizations, National / State Level Organizations for Teacher Education, Maintenance of Records and Registers in Schools.
3. Educational Concerns in Contemporary India : Inclusive Education: Conceptual Clarification and Definition, Prevalence, Myths & Facts, Characteristics, Classification & Types, Importance of Early Identification and Assessment, Planning Inclusive Education, Programming and Classroom Management in Inclusive Education, Evaluation, Documentation and Record Maintenance, Psycho-Social management, Awareness & Sensitization Strategies; Environmental Education: Concept, Objectives of Environmental Education, Environment and Natural Resources; Environmental Pollution – causes and effects and measures for the protection of environment, Development of Environmental Values through Environmental Education. Literacy: Saakshar Bharat Mission, National Programme for Education of Girls at Elementary Level (NPEGEL) School Health Programme, Disaster Management, Population Education, Adolescence Education and Life Skills, Liberalization, Privatization and Globalization, Value Education
4. Acts / Rights : Right of Children to Free and Compulsory Education Act, 2009 and Andhra Pradesh Right of Children to Free and Compulsory Education Rules 2010, Child Rights, Human Rights
5. National Curriculum Framework, 2005 : Perspective, Learning and Knowledge, Curricular Areas, School Stages and Assessment, School and Classroom Environment, Systemic Reforms

Part – III**Language – I (Indian Languages) (Marks: 09)****Urdu****Part – IV****Language II - English (Marks: 09)**

1. Parts of Speech
2. Tenses
3. Types of Sentences
4. Articles and Prepositions
5. Degrees of Comparison
6. Direct Speech and Indirect Speech
7. Clauses
8. Voice – Active and Passive Voice
9. Use of Phrases
10. Comprehension of a Prose Passage
11. Composition
12. Vocabulary

CONTENT**Part – V****Mathematics (Marks: 09)**

1. Number System (Elementary Number Theory): Number system (N,W,Z,Q,R) Numeration and Notation, Representation of numbers on Number Line, place value and four fundamental operations , properties of numbers, squares, cubes, square roots (R) and their extraction square roots of real numbers and cube roots, factorization method, types of surds conjugation and rationalization of surds, Prime and composite numbers, types of prime numbers (co, twin, relative etc.), Fermat number, even and odd numbers, prime factors, LCM, GCD and Theorem of Gauss on relative primes, Roman Numerals, Test of divisibility. International System, Concepts and types of

- fractions, decimal fractions, rational and irrational numbers, decimal representation, writing pure recurring decimal / mix recurring decimal with integral part their fundamental operations and their use in daily life.
2. Arithmetic: Length, weight, capacity, Time and Money their standard unit and Relation between them, and their use in daily life. Unitary method, Ratio and proportion, Inverse Proportion, Percentages, trade discount, Average, profit – loss, Simple interest, compound interest, Partnership, time-distance and work. Problems pertaining to Clocks and calendar.
 3. Simple Equations: Properties of Equality, Equations, Solving in-equation using their properties, Linear in-equations and their graphs, System of inequations. Linear equations in two variables, System of linear equations and their graphs, Simultaneous equation in two variables, Dependant equations, System of equations, Linear functions.
 4. Algebra: Basic Concepts of Algebra, Algebraic expressions and their Fundamental operations, Degree of a monomial, polynomial, Zero of a polynomial, Fundamental operations of polynomials, Value of expression, Solving Equations. Properties of Polynomials (Commutative etc) and fundamental operations of polynomials. Factorization, Polynomials over integers, Simplification of polynomials, Some special products, Square roots of algebraic expressions, Equations with rational and decimal coefficients, Set – concept – types – Set building form, roster's form, equality, cardinal and ordinal number, Representation of sets with Venn diagrams , Basic set operations , Compliment of a Set, Laws of set operations, principal of duality, Relations, Cartesian product of two sets, Applications of set theory, inverse relation, types of relation, Multiplication of a multinomial by a monomial, Binomial expansions, Identities, Division Rule (Remainder Theorem) Factorization GCF/HCF, Factors of multinomial, Common binomial factor, Division of a monomial by a monomial, Factorization of quadratic expression, Exponents and powers, Laws of indices, powers with exponent zero, Formula and their uses, Changing the subject of the formulae, Remainder theorem, Horner's method of synthetic division, The problem leading to quadratic equations, Laws of rational indices, Modulus of a real number.
 5. Geometry: Structure of geometry and Historical back ground, Geometry in Real Life, Fundamentals in Geometry, Method of proof, concept of converse, Rotation of an angle, Types of angles, Construction and measurement of angles, Line, axis, shapes, reflections. Symmetry – line of symmetry, point of symmetry, reflection, image of an angle. Construction of Different Angles, line segments, midpoint, etc. Triangles, its properties, Inequalities in a triangle, Types of Triangles, Parts of triangle, special cases like unique triangle, concurrency, Similar triangle and their properties, Theorems on similar triangle Congruency of triangles, SAS/ASA/SSA Axioms , Some theorems, Construction of triangles, harder cases, different types, concurrent lines in triangles (some theorems) Median, altitudes of a triangle the circum centre, in centre, the ex-centres, the centroid, orthocenter (Concurrency of

triangles). Circles and its parts, Locus, Congruency of Circles, Cyclic Quadrilaterals, Axioms, Straight line, basic axioms parallel lines, Some theorem based on Parallel lines, Angles of a polygon, theorems based on polygons, Similar polygons Parallelogram and its properties, Geometric inequalities, Quadrilaterals, exterior and interior and convex and their constructions, Elements of Three dimensional Objects, Nets of 3 Dim diagrams, Some theorems and their Converse.

6. Mensuration: Perimeter and Area of Triangle, Quadrilateral, Sector, Circle, different types of paths and polygons. Perimeter and Area of four walls of room, Surface Area and Volumes of Cubes and Cuboids. Tan diagrams, conversion of units.
7. Data Handling and Statistics: Introduction to data, data presentation, diagrammatic presentation of data, Guidelines for constructing a diagram, Constructions of Pictographs, Bar-graphs, Pie diagram, Frequency distribution table, frequency graphs (curves, polygon), Ogive curves, Average, Median, Mode.

Part – VI

SCIENCE (Marks: 09)

1. Science in everyday life: science institutes and branches:

What is science, science and change, science in daily life, contribution of scientists, national institutes of science, different branches of science.

Scientific method, process skills, communicating science, safety in science.

2. Living World:

(a) Plant life: Classification of plants, cell- the basic unit of life. Parts of typical plant, plant parts and functions: photo synthesis, respiration, transpiration, reproduction, seed dispersal, wild and cultivated plants, plant diseases, cloning, economic importance of plants- fibre to fabric

(b) Animal life:

Classification of animals, cell- the basic unit of life. Types of animals: wild and domestic- respiration- reproduction in animals- life cycle of mosquito, house fly and frog, cloning, economic importance of animals- animal fibre, parts used in taking food in animals & birds, animal colonies.

Human body- body parts, sense organs, human systems, health, hygiene and sanitation, diseases prevention and control safety and first aid, adolescence.

(c) Microbial World.

Invention of microscope- discovery of microorganisms, classification of microorganisms its observation, types of microorganisms, useful and harmful micro organisms.

3. Our Environment

Biotic and abiotic, conservation of environment, weather and climate, different ecosystem, soil – our life, forest – our life, biodiversity and its conservation.

Types of pollution and its effects – controlling measures – green house effect, ozone depletion, deforestation, human activities.

Natural Resources and calamities air, water its composition; biodegradable waste.

4. Agriculture and Animal Husbandry

Agricultural equipment and operations, kinds of crops and separation of substances, crop diseases and pest control measures, places where different crops grown in Telangana, sustainable farming, sericulture, pisciculture, breeding of cows & buffaloes, dairy farm, poultry farm, movements in animals.

5. Food and Shelter

(a) History of food and nutrition - types of food, nutrients, food habits, methods of preparing food, storage and preservation of food, balanced diet, food production from plants and animals.

(b) Shelter

Habitat: types of habitat - social life in ants and honeybees, shelter variations in animals, electrical appliances, diversity of habitats.

(c) Work and Play

Occupations and child labour, types of play, games, sports and its advantages and disadvantages.

6. Our Universe: Constellations, Zodiac, Solar System Stars, Meteors and Comets
7. Measurement: Systems of Measurement, Units of Measurements, Measurement of Length, Triangulation Method of measuring long distances, Measuring Instruments, Vernier calipers, Measurement of Area, Volume, Time, Measurement of Mass and Density
8. Natural Resources- Air and Water: Air its Composition, Measurement of Atmospheric Pressure, Air Pollution, Green House Effect, Volumetric Composition of Water, Hardness of Water, Drinking Water, Water Pollution, Wind, Rainfall, Cyclones, Pascal's Law, Archimedes Principle, Boyle's Law, Bernoulli's Principle
9. Natural Phenomena: Light: Sources & Nature of Light, Propagation of Light, Reflection, Refraction, Laws of Reflection, Image formed by a Plane Mirror, Reflection on Spherical Mirrors, Refraction. Sound: Sound-kinds of waves, Propagation of sound, Sound Reflection, Sound Pollution, Transmission of Sound, Musical Instruments. Heat: Sources of Heat, Transmission of Heat, Heat and Temperature, Units & their Measurement, Measuring Instruments, Effects of Heat- Expansion of solids, liquids, gases, Change of State
10. Mechanics, Kinematics and Dynamics: Motion-Types of Motion, Speed, Velocity, Scalars and Vectors, Acceleration, Newton's law's of Motion, Centre of Gravity, Stability, Applications
11. Magnetism: Natural Magnets and Artificial Magnets, Properties of Magnets, Magnetic Induction.

12. Electricity: Static Electricity, Primary Cells, Electric circuits, Torch Light, Effects of Electric Current, Magnetic, Chemical & Heating Effects of Electric Current
13. Modern World – Instruments: Computer-Parts & Uses, Telephone, Wireless System-Radio Broad Casting, Television, Recording and Reproduction of Sound, Magnetic Recording and Reproduction, Cine projector
14. Action of Heat on Substances & Types of Chemical changes: Action of Heat , Differences between Physical and Chemical change, Types of chemical changes
15. Symbols, Formulae and Equations: Symbols and formulae, Radicals and their formulae, Chemical equation, Meaning, Calculations based on equations and relationship of reactants and products by weights.
16. Laws of Chemical Combination: Law of conservation of mass, Law of definite proportions, Law of multiple proportions.
17. Water and its Constituents: Volumetric composition of water, Industrial and other uses of water, Laboratory preparation of Hydrogen, Properties of Hydrogen, Uses of Hydrogen, Laboratory preparation of Oxygen, Properties of Oxygen, Uses of Oxygen.
18. Sulphur and its Compounds: Extraction of Sulphur, Its Allotropic forms, Physical and Chemical properties & Uses, Preparation of Sulphur dioxide, Manufacture, Properties & Uses of Sulphuric acid, Laboratory preparation of Hydrogen Sulphide, Properties of Hydrogen Sulphide.
19. Nitrogen and its Compounds: Manufacture of Nitrogen gas from Air, Laboratory preparation, Properties & Uses of Nitrogen, Compounds of Nitrogen: Ammonia, Ammonium Salts, Nitric Acid, Properties & Uses of Nitric Acid, Fixation of Nitrogen and Nitrogen cycle, Tests for Nitrates.
20. Phosphorus and its Compounds: Occurrence of Phosphorus, Electrical Process, Properties & Uses of Phosphorus, Compounds of Phosphorus.
21. Common Salt and its Constituents: Common Salt, Electrolysis of brine, Chlorine, Properties of Chlorine, Uses of Chlorine, Hydrogen Chloride.

Part – VII

SOCIAL STUDIES (Marks: 09)

Geography:

1. Maps: reading analysis, different kinds, and making of maps- Globe as the model of earth.
2. The Solar System and the Earth: Origin and Evolution of the Solar System – Galaxy, The Earth as a member of the Solar System, Origin of the Earth, Interior of the Earth, Rotation and Revolution of the Earth and its effects., Latitudes and Longitudes – Standard time – International date line.
3. Major Land forms: Mountains, plateaus and plains, Classification and Distribution of Mountains in the World, Origin and distribution of plateaus in the World, Classification of plains, Geomorphic process: Rock weathering, mass-wasting, erosion and deposition, Formation of soil and its distribution.

4. Climatology (Weather and Climate): Atmosphere – composition and structure, Insolation – Factors influencing insolation, Temperature – Factors controlling temperature, distribution of temperature and inversion of temperature, Pressure – Global pressure belts, Winds – Planetary, Seasonal & Local, Humidity and Precipitation – Rain – types and distribution of rainfall.
5. Natural Realms of the Earth: Lithosphere- Hydrosphere- Atmosphere and Biosphere.
6. Natural Hazards: Floods, Drought, Cyclones, Tsunamis, Tornadoes, Volcanoes, Earthquakes, Landslides.
7. Ground water: Tanks, building of tanks – decline of tanks and fishing in tanks.- ground water level or water table – rocks and ground water in telangana- recharging of ground water – quality of ground water and use of ground water.
8. Forests: description and distribution- status of forests in telangana- tribal use of forests-forest products- economic importance and trade- deforestation- forest conservation- (social forestry) –forest rights Act
9. Major Natural Regions of the World: The Equatorial Regions, The Tropical Hot Desert Region, The Savannas or the Tropical Grasslands, The Temperate Grassland Region, The Monsoon Lands, The Mediterranean Region, The Taiga Region, The Tundra Region
10. Continents: Asia, Africa, Europe, North America, South America, Australia & Antarctica - with reference to location and extent, physical features, climate, Natural Vegetation & Wild life, population, Agriculture, Minerals & Industries, Transportation and Trade.
11. Geography of India and Telangana: Location and extent, physical features – relief and drainage, climate, natural vegetation, agriculture - soils, irrigation, power, population, minerals and industries, Transport and Communication, Seaports and Towns, places of Interest.

History :

1. Study of the past - Pre-Historic and Proto – Historic Period a) Bronze Age Civilization b) Early Iron Age Societies – Impact of Iron Age and the growth of civilization, Early Iron Civilization in India, The Ancient Chinese Civilization, The Persian, Greek and the Roman Civilization, Judaism and Christianity. c) The Ancient Indian Civilization: Indus Valley Civilization, Aryan Civilization – Early Vedic and Later Vedic Civilization
2. Religious Movements of 6th Century B.C. – Jainism & Buddhism
3. India from 200 B.C. to 300 A.D.: The Mauryas, Andhra Satavahanas, The Persian and Greek Invasion, Magadha, Sangam and Kushans.
4. India from 300 A.D. to 800 A.D.: The Gupta Empire, The Pushyabhuti Dynasty (Harshavardhana)
5. Deccan and South Indian Kingdoms: The Chalukyas, the Pallavas, the Cholas, the Rashtrakutas, the Yadavas and the Kakatiyas
6. The Muslim Invasions in India: The Condition of India on the eve of Arab Invasion, Turkish invasions, Ghaznavids raids and its results, Effects of Muslim invasions.

7. Delhi Sultanate: The Slaves, the Khiljis, the Tughluqs, the Sayyids and the Lodis, Downfall of Delhi Sultanate, The Sufi Movement and Bhakthi Movement, Influence of Islam on Indian Culture.
8. The South Indian Kingdom: The Kakatiya, the Vizianagaram and the Bahman Kingdom.
9. Mughal Empire: The condition of India on the eve of Babur's invasion, Babur, Humayun, Shersha, Akbar, Jahangir, Shahjahan, Aurangajeb, The reasons for the downfall of the Mughal Empire, The Rise of Marathas, History of the Sikhs.
10. Advent of Europeans : Portuguese, Dutch, French & English: Anglo – French rivalry – Carnatic wars, Establishment of British rule in India, The first war of Indian Independence, The Governor Generals and the Viceroy, The Socio – Religious movements, Movements among Muslims for social reforms
11. Cultural Heritage of India and Intellectual awakening: Art and Architecture, Development of Education, Cultural Unity and Bhakthi movement
12. India Between 1858 – 1947: Political, Economic and Social Policies of British in India, The British Policy towards Indian princess, British policy towards neighbouring countries
13. Changes in Economic and Social Sectors during the British period: Agriculture, Famines in India in between 1858 – 1947, Transport facilities, Beginning of Modern Industries, Rise of new classes in Indian Society.
14. Rise of Nationalism – Freedom Movement: Causes for the rise of Nationalism, The Birth of Indian National Congress, The Age of Moderates and Extremists, Vandemataram Movement, Home Rule Movement, Mahatma Gandhi & Indian National Movement, Quit India Movement, Mountbatten plan, Integration of Princely States, land lords and tenant under British and the Nizam, freedom movements in Hyderabad. Liberation of French and Portuguese colonies.
15. The Modern World: Beginning of Modern Age, Renaissance, Development in Science, The Reformation Movement, Rise of Nation States
16. World Wars: The First World War, League of Nations, The Second World War, The World after Second World War.

Civics :

1. Family, Occupations, Our House & Our Shelter, Community – Types, Community development, Civic life, Social evils in our Society, Our Government: Local Self – Government, Rural, Urban, Decentralization of powers, District administration, Government at the Centre, State with reference to: Executive – Executive council in the Union Govt. and State Govt., Legislative – Indian Parliament, State Legislative Assembly, Legislation and Judiciary and interpretation of laws, Independent Judiciary Judicial system in the country and State, Courts as Watch dogs of Citizens Rights, Lok Adalats.
2. Indian Constitution: India as a Nation – Preamble, Salient Features of Indian Constitution, Fundamental Rights and Directive Principles, Fundamental Duties, India as a federation and Unitary State, Unity in Diversity & National Integration. Indian Democracy: Meaning, Nature, Democratic Government, village panchayats, local self Governments in Urban areas. Elections and Election process, Major Political parties, Role of Political Parties in democracy, Presidential and Parliamentary

- democracy, Information awareness – Right to Information Act. Socialism: Meaning, Definition, Characteristics of Socialism, Social barriers in India, Socialism in Practice – Challenges facing in our country - Illiteracy, regionalism, communalism, child rights, law, society and individual, anti social practices. Secularism: Need and importance, India – religious tolerance, Promotion of Secularism in India, Gender Equality, right to property.
3. World Peace and Role of India: India in the international era, Foreign Policy Non-Alignment Movement Policy (NAM), India and Common Wealth, India's Relations with Super Powers, India and Neighbours, India and SAARC, India's leading role in the World. UNO and Contemporary World Problems: UNO - Organs and specialized agencies, functions, achievements, India's Role in U.N., Contemporary World problems, New International Economic order, Environmental Protection, Human Rights.
 4. Traffic Education / Road Safety Education.
 5. Culture and Communication- Handicrafts and handlooms in Telangana- Structural Monuments- performing arts- and artists, Film and print media and sports: Nationalism and Commerce.

Economics :

1. Economics – Meaning , Definition, Scope, importance – Classification of Economics (Micro & Macro) – Concepts of Economics – different types of goods, wealth, income, utility, value, price, wants and welfare. Basic elements of Economics – Types of utility, consumption, production, distribution, scarcity, Economic agents. Factors of production – Land, Labour, Capital and organization – forms of Business Organization.
2. Theory of Demand: Meaning, determinants of demand, demand schedule – individual & market demand schedule, the law of demand, demand curve, demand function.
3. Supply: Meaning, determinants of supply, supply schedule, Individual and market supply schedule, law of supply, supply curve.
4. Theory of Value: Classification of markets, perfect competition features, price determination.
5. Theory of Distribution: Distribution of income – determination of factor prices – rent, wage, interest and profit.
6. Types of Economics – Capitalistic, Socialistic & Mixed Economy.
7. National Income: Definition of National Income – Concepts – Gross National Product, Net National Product – National Income at factor cost – personal income – disposable income – per capita income – nominal and real G.N.P., National income and distribution – Standard of living, Human development Index – Economic inequalities and poverty line.
8. Budget: Meaning, definition, central and state budgets, Types of budget – Surplus, balanced & deficit, Types of Revenue – Taxation – direct and indirect taxes, Classification of revenue & expenditure in budget, Types of deficits.
9. Money: Definition – functions of money, Classification of money, supply of money.
10. Banking: Commercial banks – Functions, Central Bank – origin and functions, Reserve Bank of India.

11. Economic Growth and Development: Economic Growth, Economic development – concept, Indicators, Factors influencing Economic Development, Economic Development in India.
12. Indian Economy: Characteristic of Indian Economy before Independence: Indian Economy since independence – organized and unorganized Sectors. Population in India – birth and death rate – occupational distribution of population in India and Telangana. Human Resource Development: Meaning of Human Resource Development – Role of Education and Health in Economic development – Human Development Index. Agriculture Sector in India: Importance – Characteristics of Indian agriculture, causes for low productivity, measures to increase agriculture productivity in India, Land reforms in India – Green Revolution. Industrial Sector: Role of Industrial Sector in Indian Economy – Classification of Industries. Tertiary Sector: Role and importance of Service Sector in Indian Economy. Problems of Indian Economy: Poverty, unemployment and regional disparities. Planning: Meaning and definition – Five Year Plans in India. Disaster management and types of disaster and natural disasters.

Part – VIII

Teaching Methodology (Strategy Papers) (Marks: 15)

- I - زبان، مختلف تصویرات، مادری زبان، تدریسی مقاصد
- II - لسانی مہارتیں (Language Skills)
- III - طریقہ تدریس (Teaching Methodology)
- نثر - نظم - قواعد - اتنا - سرکاری مطالعہ
- IV - منصوبہ بندی (اسباق کی منصوبہ بندی) ہم لسانی سرگرمیاں
(Planning & Co-curricular Activities)
- V - تدریسی کتابیں / ادوی وسائل (TLM)
اور ایجوکیشنل ٹکنالوجی (Educational Technology)
- VI - جائز (Evaluation)

Teaching Methodology - English

1. Aspects of English:- (a) English language – History, Nature, Importance, Principles of English as Second Language (b) Problems of Teaching / Learning English.
2. Objectives of Teaching English.
3. Phonetics
4. Development of Language skills:- (a) Listening, Speaking, Reading & Writing (LSRW) (b) Communicative skills.
5. Approaches, Methods, Techniques of teaching English: Introduction, Definition and Types of Approaches, Methods and Techniques of Teaching English, Remedial Teaching.
6. Teaching of Structures and Vocabulary items.
7. Teaching Learning Materials in English
8. Lesson Planning
9. Curriculum & Textbooks
10. Evaluation in English language

Teaching Methodology – Mathematics

1. Nature and Definitions of Mathematics
2. Aims, values and instructional objectives of teaching Mathematics
3. Methods of Teaching & Remedial measures in Mathematics
4. Instructional Material, TLM and Resource Utilization in Mathematics
5. Curriculum, Text Book & Instructional Planning.
6. Evaluation and Continuous Comprehensive Evaluation

Teaching Methodology – Science

1. Nature and Scope of Science
2. Aims, Objectives & Values of Teaching Science
3. Correlation of Science with other School Subjects
4. Instructional Material, TLM and Resource Utilization in Science
5. Curriculum and its Transaction
6. Evaluation and Continuous Comprehensive Evaluation

Teaching Methodology – Social Studies

1. Nature and Scope of Social Studies
2. Aims, Objectives and Values of Teaching Social Studies
3. Methods of Teaching Social Studies
4. Resource Utilization, Content Enrichment material
5. Curriculum, Text Book and Instructional Planning
6. Evaluation and Continuous Comprehensive Evaluation