TEACHER ELIGIBILITY TEST TSTET 2023

PAPER II - SYLLABUS

I. CHILD DEVELOPMENT AND PEDAGOGY (Marks: 30)

1. DEVELOPMENT OF CHILD

- Development, Growth & Maturation Concept & Nature
- Principles of development & their implications
- Factors influencing Development Biological, Psychological, Sociological
- Dimensions of Development and their interrelationships Physical & Motor, Cognitive, Emotional, Social, Moral, Language relating to Infancy, early Childhood, late Child hood, Adolescence.
- Understanding Development Piaget, Kohlberg, Chomsky, Carl Rogers and Erikson
- Individual differences Intra & Inter Individual differences in the areas of Attitudes, Aptitude, Interest, Habits, Thinking (Divergent & Convergent), Intelligence and their Assessment
- Development of Personality Concept, Factors effecting development of Personality, Child Rearing Practices,

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- Self-Concept
- Adjustment, Behavioural problems, Defense Mechanisms, Mental Health
- Methods and Approaches of Child Development Introspection, Observation, Interview, Case study, Experimental. Anecdotal Records, Questionnaire, Rating Scales, Cross sectional and Longitudinal
- Developmental tasks and Hazards

2. UNDERSTANDING LEARNING

- Concept, Nature of Learning input process outcome
- Factors of Learning Personal and Environmental
- Approaches to Learning and their applicability-Behaviourism (Skinner, Pavlov, Thorndike), Constructivism (Piaget, Vygotsky), Gestalt(Kohler, Koffka) and Observational (Bandura)
- Dimensions of Learning Cognitive, Affective and Performance
- Motivation and Sustenance -its role in learning.
- Memory & Forgetting
- Transfer of Learning

3. PEDAGOGICAL CONCERNS

- Teaching and its relationship with learning and learner
- Learners in Contexts: Situating learner in the socio-political and cultural context
- Children from diverse contexts-Children With Special Needs (CWSN), Inclusive Education
- Understanding of pedagogic methods Enquiry based learning, Project based learning, Survey, Observation and Activity based learning, Co-operative & Collaborative Learning
- Individual and Group learning: Issues and concerns with respect to organizing learning in class room like Study habits, Self learning and Learning to learn skills
- Organizing learning in heterogeneous class room groups Socio-economic background, Abilities and Interest
- Paradigms of organizing Learning-Teacher centric, Subject centric and Learner centric
- Theory of Instruction Bruner
- Teaching as Planned activity Elements of Planning
- Phases of Teaching Pre active, Interactive and Post active
- General and Subject related skills, competencies required in teaching and attributes of good facilitator
- Learning resources Self, Home, School, Play, Community, Technology
- Class room Management: Role of student, teacher, Leadership style of teacher, Creation of non-threatening learning environment, Managing behaviour problems, Guidance & Counselling, Child abuse, Punishment and its legal implications, Rights of a child, Time Management.
- Distinction between Assessment for Learning & Assessment of Learning, School based Assessment, Continuous & Comprehensive Evaluation : Perspective & Practice
- Understanding teaching & learning in the context of NCF, 2005 & Right To Education Act, 2009.

II. LANGUAGE - I Hindi (Marks: 30)

(A) CONTENT Marks: 24

- I. अवबोध
 - 1. अपठित गद्य
 - 2. अपठित पद्य
- II. कवि, काव्य रचनाकार (लेखक) रचनाएँ विधाएँ
- III. अकर्मक सकर्मक क्रियाएँ

वाक्य - वाक्य के भेद, कर्तृ वाच्य, कर्म वाच्य, भाव वाच्य, वाक्य और प्रयोग वाक्य क्रम, घटना क्रम

IV. वर्णमाला, शब्द भेद, वचन, लिंग, कारक, काल, विराम चिह्न, संधि, समास,

विलोम शब्द, समान अर्थ, भिन्नार्थ, मुहावरे, कहावतें, लोकोक्तियाँ

(B) भाषा - शिक्षण - विधियाँ (Methodology)

Marks: 06

I. भाषा का स्वरूप - भाषा की प्रकृति

अर्थ - परिभाषा, ध्विन विज्ञान, शब्द, वाक्य विज्ञान, विविध स्तरों पर हिंदी शिक्षण के लक्ष्य और उद्देश्य, प्रथम भाषा के रूप में हिंदी, द्वितीय भाषा के रूप में हिंदी, त्रिभाषा-सूत्र

II. भाषा-कौशलो का विकास

सुनना, बोलना, पढ़ना, लिखना

III. हिंदी अध्यापक और शिक्षण-विधियाँ

अच्छे शिक्षक और अच्छे शिक्षण की विशेषताएँ

भाषा - शिक्षण के सामान्य सिद्धांत

भाषा - शिक्षण की प्रणालियाँ

भाषा - शिक्षण की पद्धतियाँ (प्रत्यक्ष, परोक्ष, खेल, मॉन्टेसरी, निर्देशित, स्वाध्याय, डाल्टन, प्रायोजना, प्रश्नावली, आगमन, निगमन, क्रियात्मक, सूक्ष्म शिक्षण)

IV. पाठ्यक्रम और सहगामी क्रियाएँ

पाठ्यक्रम, पाठ्यपुस्तक, पुस्तकालय, दृश्य-श्रव्य उपकरण (शिक्षण उपकरण), भाषा की दृष्टि से उपयोगी सहगामी क्रियाएँ

V. शिक्षण और योजना

आवश्यकता, उपयोगिता, इकाई योजना, पाठ्य योजना

VI. मृत्यांकन

मूल्यांकन की धारणा, निरंतर समग्र मूल्यांकन, उत्तम परीक्षा की विशेषताएँ, प्रश्न पत्र का निर्माण, उपलब्धि परीक्षा अभिलेख

III. LANGUAGE - II (ENGLISH) (Marks: 30)

CONTENT (Marks: 24)

(1) Parts of Speech (2) Tenses (3) Active voice & Passive voice (4) Prepositions and Articles (5) Degrees of comparison (6) Clauses (7) Verbs - Main Verbs - Auxiliary Verbs (8) Adverbs - Types of Adverbs (9) Conjunction - coordinating conjunction - subordinating conjunction. (10) Direct and Indirect speech (11) Questions and question tags (12) Types of sentences - simple, compound and complex - synthesis of sentences (13) Phrases - uses of phrases. (14) Composition - letter writing - precise writing (15) Comprehension (16) Vocabulary - Antonyms, Synonyms and Spellings (17) Meaning of idiomatic expressions, (18) Correction of Sentences, (19) Sequencing of the Sentences in the given paragraph (20) Error identification within a sentence

PEDAGOGY (Marks: 06)

- 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 / Transcription.
- 4. Development of Language skills:- (a) Listening, Speaking, Reading & Writing (LSRW). (b) Communicative skills Imparting values through Communication.
- 5. Approaches, Methods, Techniques of teaching English:- (a) Introduction, definition & types of Approaches, Methods & Techniques of teaching English (b) Remedial teaching.
- 6. Teaching of structures and vocabulary.
- 7. Teaching learning materials in English Language Teaching.
- 8. Lesson Planning.
- 9. Curriculum & Textbooks Importance and its need.
- 10. Evaluation in English Language Teaching CCE

IVa. MATHEMATICS & SCIENCE (Marks: 60)

CONTENT (Marks: 24)

- 1. Number System Prime and Composite Numbers, Tests of divisibility, whole numbers, integers, fractions, decimal fractions, L.C.M. and G.C.D. rational numbers and irrational numbers. Properties of numbers, Real numbers; laws of exponents, squares, square roots, cubes, cube roots, finding missing number represented as alphabets in sums involving array of four operations, number patterns, number puzzles, Euclid division lemma, concept of logarithms.
- **2. Arithmetic -** Ratio and proportion, simple interest, compound interest, Time and distance, Discount, tax, time and work, profit and loss
- **3. Sets** Concept of set, set language, empty set, finite and infinite sets, subset and equality of sets, cardinal number of set, set operations, representation of sets, Venn diagrams and their properties,
- **4. Algebra** -Introduction to Algebra, expressions, exponents and powers, Factorization special products and expansions, linear equations and their graphs, polynomials, Quadratic equations and its applications, concept of progressions, progressions (AP and GP).nth term and sum of the first n terms in AP, nth term of GP
- 5. Geometry History of Geometry, Contribution of India in the Development of Geometry, Euclid Geometry, Lines and Angles, Similar Triangles, Pythagoras theorem, congruency of triangles, Properties of Circles, Triangles, Quadrilaterals and polygons, Parts of Circle: Construction of Circle, Triangles and Quadrilaterals, Circles and concurrent lines in triangles, Co-ordinate Geometry, Co-ordinates of a point, plotting of points, representing of linear equations in two variables (of the form ax+by+c=0,) in the Cartisian coordination system). Linear equations with 2 variables, slope of a line, distance between two points in a plane, section formula, Area of a triangle, collinearity of points in a co-ordinate plane, centroid of a triangle, symmetry,

- **6. Mensuration** Perimeter and Area of a Square and Rectangle. Area of Triangle, Circle, Ring and Quadrilaterals. Surface area and volume of Cube, Cuboid, Lateral & total Surface area and volume of a cylinder, cone, sphere and hemisphere, conversion of one solid to another shape, surface area and volume of combination of solids.
- 7. **Data Handling** Collection and Classification of Data, Frequency distribution table, Tally marks, Bar graph, Pictograph and Pie diagrams, mean, median and mode for un-grouped and grouped data, cumulative frequency table and ogive curves, concept of probability, simple problems (day to day life situation) on single events, concept of complementary events.
- **8.** Trigonometry Introduction of Trigonometry, Relationship between ratios, values of trigonometric ratios, (0°, 30°, 45°, 60° and 90°) Trigonometric identities, trigonometric ratios of complementary angles, applications of trigonometry, Angle of elevation and depression, simple problems.

PEDAGOGY (Marks: 06)

- 1. Definition and Nature of Mathematics
- 2. Aims, values, instructional objectives of teaching Mathematics and Academic Standards
- 3. Methods of Teaching Mathematics
- 4. Instructional material in Mathematics TLM in Mathematics
- 5. Instructional Planning
- 6. Continuous Comprehensive Evaluation (CCE) Formative Assessment, Summative Assessment Processes and procedures
- 7. Designing, Administration, Analysis of scholastic Achievement Test (SAT)
- 8. Diagnostic and Remedial Teaching
- 9. The Mathematics Teacher
- 10. Resource Utilization
- 11. Curriculum and Text Book

IV(a). SCIENCE

CONTENT (Marks: 24)

1. Natural Resources - Air, Water: Water pollution, Harnessing of water, States of water, Hardness of water, water pressure

Air pollution, Atmospheric Pressure, Air pressure, Archimedes' principle, Pascal's law, Bernoulli's Principle, Hydrometer, Barometer.

- Laws of floatation, Specific gravity, Surface tension, Fluid Mechanics.
- **2. Our Universe: Solar e**clipse lunar eclipse Constellation Zodiac, Space travel; Solar system, Satellites, stars, comets; Earth.

3. Natural Phenomenon:

Light: How can we see objects – shadows – Reflection of light – laws of reflection – plane mirrors and images – Virtual image, real image, pinhole camera, periscope, kaleidoscope – spherical mirrors and images – Fermat's Principal – Applications of reflection of light – Refraction of light – laws of refraction – refractive index, Snell's law – total internal reflection and its applications – refraction through glass prisms and slabs – refraction at curved surfaces and through lenses – images formed by lenses and ray diagrams – construction of human eye – least distinct vision – defects of vision-formation of rainbow- dispersion of light.

Sound: Sources of sound, Production and propagation of sound – construction of human ear and its working – Properties of sound – auditable range - Sound Pollution, Sound Waves, Kinds of Sound Waves, characteristics of sound waves – reflection of sound – echo – uses of ultrasonic sounds - Musical instruments.

Heat: Concept of heat and temperature – thermal equilibrium - Measurement of Temperature – Types of Thermometers – specific heat and its applications in daily life – methods of mixtures – evaporation – condensation – boiling point – melting point.

- 4. Mechanics Kinematics, Dynamics: Concept of motion and rest.
 - Types of Motion; Speed, Velocity, Acceleration, Newton's Laws of Motion, force types of force resultant force Friction types of friction factors influencing the friction fluid friction gravitation Newton's law of gravitation centre of gravity and stability. Work and energy types of energy conservation of energy.

5. Magnetism and Electricity:

Magnetism: Natural Magnets and Artificial Magnets, properties of Magnets, uses magnets – methods of magnetization - Magnetic Induction – magnetic field – Magnetic lines of force.

Electricity: Electric Circuit - Primary Cells - conductors and insulators - electric charge - electric field - electric potential - potential difference - EMF - Ohm's law - resistance - specific resistance - resistances in series and parallel - heating effects of electric current - electric power - magnetic effects of electric current - solenoid - Fleming's left hand rule - electric motor - electromagnetic induction - electric generator - electrical conductivity of liquids - electro plating - Faraday's laws of electrolysis.

6. Matter around us: States of matter – properties of matter – substances and mixtures – methods of separation of mixtures – fibers – types of fibers, plastics – types of plastics – use of plastics and environment.

Acids, bases and salts – neutralization - metals and non metals – physical and chemical properties of metals and non-metals – Coal and petroleum – combustion and fuels – types of combustion – temperature of combustion – calorific value.

- 7. Laws of Chemical Combination and Chemical Calculations: Physical change, chemical change Laws of chemical combination, chemical reactions and calculations. Types of chemical reactions.
- **8. Atomic Structure :** Atoms and molecules elements atomicity Dalton's atomic theory Ions atomic mass valency molecular mass concept of mole molar mass Thomson model of atom, Rutherford model of atom Bohr's model of atom atomic number Isotopes quantum numbers electronic configuration.
- **9. Periodic classification and chemical bonding :** Dobenier triads Newlands law of octave Mendaliev's periodic table long form of periodic table changes of properties of elements in groups and periods.

Chemical Bond – ionic bond – covalent bond – shapes of molecules – electron valency theory – properties of ionic and covalent substances.

- **10. Metallurgy:** Extraction of metals and steps reactivity of metals and its role in extraction of metals various methods of extraction of metals.
- 11. Biology: Its importance in everyday life
- 12. Living World Characteristics: Classification of Plants and Animals and their characteristics.
 - a) Cell: Concept, Cell theory, differences between Plant cell and Animal cell, Cell divisions, Cell organelles.
 - b) Tissues Animal tissues, plant tissues.
- 13. Plant World Types of plants: Parts of a plant their functions, seed dispersal, fibers from plants.

Reproduction - Asexual, Sexual, Vegetative propagation, Nutrition, Photosynthesis, Excretion, Respiration, Economic importance of plants.

Economic importance of Plants, Agriculture, Crop diseases & pest control measure.

14. Animal World: Movements, Organ systems and their functions including man

Digestive system, Respiratory system, Circulatory system, Excretory system, Nervous system, Endocrine system, Skelton system, Reproductive system, Sense organs in man, Nutrition Deficiency diseases in man, First Aid, HIV/ AIDS, animal behaviour

Economic importance of Animals, Animal husbandry, Pisciculture, Sericulture.

- 15. Microbes: Bacteria, Viruses, Fungi, Protozoan
 - useful and harmful microbes, microbial diseases in plants & animals
- **16. Our Environment:** Biotic & Abiotic factors, Natural resources, Biodiversity, different eco systems, air pollution, water pollution, soil pollution, carbon cycle, nitrogen cycle, oxygen cycle.
- 17. Recent trends in Biology: -Hybridization, Genetic engineering, Gene banks, Gene therapy, Tissue culture

PEDAGOGY (Marks: 06)

- 1. Definition, Nature, Structure and History of Science
- 2. Aims, Values, Instructional Objectives of teaching Science and Academic Standards in Science
- 3. Methods of Teaching Science
- 4. Instructional Material in Teaching Science TLM in Science.
- 5. Instructional Planning
- 6. Science Laboratory
- 7. Science Teacher Changing Roles
- 8. Science Curriculum and its transaction, NCF-2005, SCF-2011
- 9. Science Textbooks.
- 10. Evaluation CCE Formative Assessment, Summative Assessment Designing and Administration- Analysis of Scholastic Achievement Test (SAT)

IVb. SOCIAL STUDIES (Marks: 60)

CONTENT (Marks 48)

I. DIVERSITY ON THE EARTH

- 1. Maps scale cardinal points types of maps evolution of maps conventional signs contour lines
- 2. Globe oceans and continents latitudes and longitudes origin of earth realms of the earth (lithosphere, atmosphere, hydrosphere, biosphere) landforms movements of the earth and its effect seasons interior of the earth
- 3. Solar Energy insolation temperature and its measuring terrestrial radiation polar regions
- 4. Elements of climate types of rainfall.
- 5. Europe, Africa location physical features climate forests and wild life population agriculture minerals industries transportation trade, exports and imports.
- 6. Geography of India and Telangana physical features rivers and other water sources seasons forests climate and its factors affecting floods and droughts forests and animal wealth soils electricity agriculture mineral wealth industries population, literacy rate density of population settlements and migration transportation.

II. PRODUCTION - EXCHANGE AND LIVELIHOODS

- 1. Livelihood of earliest people sites in Telangana domestication settled life Agriculture types of farming crop seasons problems of agriculture and agricultural labourers and small farmers contract farming agriculture in Telangana trade and marketing Self Help Groups agricultural markets yards Minimum Support Price trading paddy in Telangana land holdings phases in agricultural development green revolution organic farming.
- 2. Production handicrafts and handlooms cooperative societies and their role industrial revolution sources of energy trade in industrial products urbanization and slums production in a paper factory process of making paper transport system in Telangana employment in transport congestion and pollution.
- 3. Industries factors of location agro based and mineral based industries automobile industries and IT phases in industrial development Industrial policies growth in production environmental problems.
- 4. Service Activities categories importance challenges.
- 5. Money and Banking Barter System exchange with money evolution of money emergence of banks commercial banking types of deposits Cheques and Demand Drafts loans Internet Banking credit in the financial system financial literacy.
- 6. Prices and Cost of Living price's effect on people inflation consumer price index regulation of prices government budget and taxation VAT.
- 7. Production and Employment sectors of the economy National Income (GDP) Percapita Income HDI employment organized and unorganized sectors impact of technology on three sectors of the economy.
- 8. Public Health and Government health care services public and private health insurance.
- 9. Globalization flows in economic exchange MNCs Foreign trade factors enabling globalization WTO, IMF impact.
- 10. Food Security and Nutritional Status of India PDS sustainable development meaning sustainable development with equity.

III. POLITICAL SYSTEMS AND GOVERNANCE

- 1. Tribal Panchayat system present local body system (Gram Panchayat, Mandal Parishad and Zilla Parishad) & Urban Governments formation and functions.
- 2. Emergence of kingdoms and republics first empires Mouryas Rajputs Rastrakutas Cholas Deccan kingdoms Satavahana Kushants Guptas.
- 3. Regional Kingdoms: Kakatiyas Vijayanagara Empires Qutubshahis.
- 4. Moghals Asafjahis British Empire landlords and tenants under the British and Nizams and Moghals peasant movement in Hyderabad.
- 5. National Movement in India Muslim League partition and migration merging of princely states and Freedom Movement in Hyderabad State.

- 6. Making of laws and implementation of laws Assembly Council and Parliament Election process WALTA Act-2002.
- 7. Indian Constitution formation features and preamble Justice Rule of Law Judicial System civil and criminal laws levels of courts.
- 8. Changing cultural traditions in Europe 1300-1800 renaissance reformation modern science.
- 9. Democratic and National Movements England, American and French revolutions unification of Germany and Italy. Expansion of Democracy in Myanmar and Libya Civil Liberties.
- 10. Industrialization and social change Britain, Germany and France movements of women, workers (Socialism).
- 11. Colonialism in Latin America, Asia and Africa impact on India and other regional movements.
- 12. World Wars I and II reasons -Treaty of Versailles League of Nations Holocaust Nazism Facism, consequences Great depression.
- 13. National Liberation Movements in China, Vietnam and Nigeria
- Post War World and India UNO NAM west Asian conflicts peace movements and collapse of USSR.
- 15. Independent India first general elections SRC Relation with neighboring countries regional agitations and formation of parties coalition governments Emergency period Mandal commission economic liberalism.
- 16. The Movement for the formation of Telangana gentle men's agreement reasons for Telangana demand different JACs TRS achieving Telangana.
- 17. Disaster management types of disasters drought accident related threat of terrorism human induced disasters
- 18. Traffic Education traffic signals signs necessary documents

IV. SOCIAL ORGANIZATION AND INEQUITIES

- 1. Diversity in India gender inequalities sex ratio employment status of women and their work with wages women protection acts.
- 2. Caste discriminations reformers initiations.
- 3. Abolition of Zamindari System Rural poverty at the time of independence Land ceiling Bhoodan Movement.
- 4. Poverty distress in rural areas poverty as chronic hunger food inequality elimination of poverty access to affordable food the right to life
- 5. Human Rights and Fundamental Rights Right to Information Right to Education Lok Adalat.
- 6. Social Movements Civil Rights movement in USA Green Peace movements Bhopal gas disaster NBM meria paibi Human Rights Movement in USSR.

V. RELIGION AND SOCIETY

- 1. Religion and society in early times Indus Valley Civilization Vedas Hinduism, Buddism, Jainism, Christionity, Islam Bhakti movement, new religious developments in India.
- 2. Folk religion communal worship of folk deities. The antiquity of folk traditions inter mixing of village deities and high religious traditions
- 3. Social and Religious Reforms Movement Christian Missionaries and Oriental Scholars Religious Movements of Bengal and Punjab Reform and Education among Muslims Reform Movements in Nizam Dominions Women and Dalits in freedom movements.
- 4. Understanding Secularism.

VI. CULTURE AND COMMUNICATION

- 1. Indian Heritage and Culture Historical sites
- 2. Language, writing and script Vedas epics jataka stories sangam literature in Tamil.
- 3. culpture and Buildings Harappan cities Buddhist Stupas and Viharas rock cut chaityas.
- 4. Rulers and Buildings Engineering skills and construction (temples, mosques, tombs, forts and tanks) destruction of temples imperial style of Vijayanagara period.
- 5. Performing arts Film and Print Media Evolution of cinema influence of films on the society role of newspapers in cultural awakening and freedom movement.
- 6. Sports: Nationalism and Commerce

PEDAGOGY (Marks: 12)

- 1. Social Sciences as on integrating area of study: Context and concerns
 - Distinguishing between Natural and Social Sciences Social Studies and various Social Sciences contributions of some eminent Social Scientists
- 2. Aims and objectives of learning Social Sciences
 - values through Social Sciences learning objectives and illustrations learning objectives in constructivist approach - Academic Standards
- 3. School curriculum and resources in Social Sciences
 - NCF-2005, RTE-2009, SCF-2011 syllabus Resources Dale's Cone of Experience
- 4. Teaching Learning Geography space, resources and development
- Teaching Learning Economics State, market and development
- 6. Approaches and strategies for learning Social Sciences
 - collaborative learning approach 5E learning model problem solving approach planning concept mapping
- 7. Teaching Learning History
 8. Teaching Learning of Political Science, Democracy and Development
- **Community Resources and Social Sciences Laboratory**
- 10. Tools and techniques of assessment for learning: Social Sciences
 - Evaluation CCE assessment framework assessment learning of students with special needs