

# TEACHER ELIGIBILITY TEST

TSTET 2016

## PAPER I – SYLLABUS

### CHILD DEVELOPMENT AND PEDAGOGY (Marks: 30)

#### 1. DEVELOPMENT OF CHILD

- Development, Growth & Maturation - Concept & Nature
- Principles of Development & their educational 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 Childhood, 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, Self-Concept
- Adjustment, Behavioral problems, Defense Mechanisms, Mental Health
- Methods and Approaches of Child Development – Introspection, Observation, Interview, Case study, Experimental, Rating Scales, Anecdotal Records, Questionnaire, 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 - Behaviorism (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 behavior problems, Guidance & Counseling, 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

## II LANGUAGE (KANNADA)

### II LANGUAGE – I KANNADA (Marks 30)

#### A. Content

Marks : 24

#### 1. Comprehension ( ಅವಗಾಹನ )

೧. ಅಪರಿಚಿತ ಗದ್ಯ
೨. ಅಪರಿಚಿತ ಪದ್ಯ
2. ಕವಿಗಳು, ಕಾವ್ಯಗಳು / ಲೇಖಕರು, ಕೃತಿಗಳು
3. ಆಕರ್ಮಕ, ಸಕರ್ಮಕಕ್ರಿಯಾಪದಗಳು, ವಾಕ್ಯಗಳು, ವಾಕ್ಯಪ್ರಕಾರಗಳು, ಕರ್ತೃ, ಕರ್ಮಣಿ ವಾಕ್ಯಗಳು, ಪ್ರತ್ಯಕ್ಷ ಪರೋಪಕ್ರಮವಾಕ್ಯಗಳು, ವಾಕ್ಯರಚನೆ.
4. ದರ್ಶನಮಾಲೆ, ಪ್ರತ್ಯಯಗಳು, ವಚನಗಳು, ಲಿಂಗಗಳು, ವಿಭಕ್ತಿ ಪ್ರತ್ಯಯಗಳು, ಕಾಲಗಳು ವಿರಾಮ ಚಿಹ್ನೆಗಳು. ಸಂಧಿಗಳು, ಸಮಾಸಗಳು, ಅಲಂಕಾರಗಳು, ತತ್ವಮಗಳು, ವಿರುದ್ಧಪದಗಳು, ಪರ್ಯಾಯಪದಗಳು, ನಾನರ್ಥಗಳು, ಗಾದೆಗಳು, ಲೋಕೋಕ್ತಿಗಳು, ನುಡಿಮುತ್ತುಗಳು, ಸ್ತಂತ್ರವಾಕ್ಯಗಳು, ಒಗಟುಗಳು.

#### B. ಬೋಧನಾ ಪದ್ಧತಿಗಳು ( Methodology)

1. ಬಾಣಿಯ ವ್ಯಾಖ್ಯೆ, ಹುಟ್ಟು ಮತ್ತು ಪೂರ್ವೇತಿಹಾಸ, ಸ್ವರೂಪ ಸ್ವಭಾವಗಳು, ಉದ್ದೇಶಗಳು, ಪ್ರಯೋಜನಗಳು, ಧ್ವನಿಯ ಉತ್ಪತ್ತಿ ಧ್ವನಿ ಉಚ್ಚಾರಣ ದೋಷಗಳು- ಕಾರಣಗಳು -ನಿವಾರಣೆ.
2. ಮಾತೃ ಭಾಷೆ. ವ್ಯಾಖ್ಯೆ ಉದ್ದೇಶಗಳು, ಮಹತ್ವಗಳು ಪ್ರಯೋಜನಗಳು, ಉದ್ದೇಶಗಳು, ಮಹತ್ವಗಳು ಪ್ರಯೋಜನಗಳು, ತ್ರಿಭಾಷ ಸೂತ್ರ, ಬೋಧನಾ ಭಾಷೆಯಾಗಿ ಮಾತೃಭಾಷೆಯ ಅಳವಡಿಕೆ-ಸಮಸ್ಯೆಗಳ ನಿವಾರಣೆ. ಮಾತೃಭಾಷಾ ಅಧ್ಯಾಪನ ಲಕ್ಷಣಗಳು ಮಾತೃಭಾಷಾ ಬೋಧನಾ ಗುರಿಗಳು- ಜ್ಞಾನ, ಭಾವಾವೇಷ, ಮಾನಸಿಕ ರಂಗಗಳು ಕನಿಷ್ಠ ಸಾಮರ್ಥ್ಯಗಳು - ಪ್ರಥಮ ಭಾಷೆಯಾಗಿ ಕನ್ನಡ ಬೋಧನೆಯ ಉದ್ದೇಶಗಳು- ಗುರಿಗಳು, ಸೃಷ್ಟಿಕರಣ
3. ಬೋಧನಾ ನೈಪುಣ್ಯಗಳು : ಕ್ರಮಣ, ಭಾಷಣ, ಪಠನೆ, ಬರೆಯುವಿಕೆ .
4. ಬೋಧನಾವಿಧಾನಗಳು : ಕ್ರೀಡೆ , ಮಾಂಟೆಸೊರಿ, ಕಿಂಡರ್ ಗಾರ್ಡನ್, ಡಾಲ್ಫಿನ್, ಚರ್ಚಾಪದ್ಧತಿ , ಪ್ರಯೋಗಾತ್ಮಕ ಪದ್ಧತಿ, ಪರಿವೇಕ್ಷಿತ ಅಧ್ಯಾಯನ, ನಾಟಕೀಕರಣ ಪದ್ಧತಿಗಳು. ಭಾಷಾಬೋಧನ ಪದ್ಧತಿಗಳು : ಪದ್ಯ, ಗದ್ಯ, ಪಠ್ಯಪುಸ್ತಕ, ಉಪಪಠ್ಯಪುಸ್ತಕ, ಪತ್ರ ರಚನೆ, ಮೌಲ್ಯ ಶಿಕ್ಷಣ - ಬೋಧನಾ ಪದ್ಧತಿಗಳು
5. ಬೋಧನೋಪಕರಣಗಳು ವ್ಯಾಖ್ಯೆ, ಅವಶ್ಯಕತೆ - ಪ್ರಯೋಜನಗಳು, ಶ್ರವ್ಯ - ದೃಶ್ಯ ಉಪಕರಣಗಳು, ಬೋಧನೋಪಕರಣಗಳ ಉಪಯೋಗಿಸುವಿಕೆಯಲ್ಲಿ ತೆಗೆದು ಕೊಳ್ಳಬೇಕಾದ ಜಾಗೃತೆಗಳು. ಯೋಜನ ರಚನೆ : ಅವಶ್ಯಕತೆ - ಪ್ರಯೋಜನಗಳು ವಾರ್ಷಿಕ ಯೋಜನೆ , ಘಟಕ ಯೋಜನೆ, ಪಠ್ಯಯೋಜನೆ.
6. ಲಿಪಿ ಹುಟ್ಟು ಪೂರ್ವೇತಿಹಾಸ ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ - ಪ್ರಾಚೀನ ಯುಗದಿಂದ ಅಧುನಿಕ ಯುಗದ ವರೆಗೆ
7. ಮೌಲ್ಯಮಾಪನೆ : ಪರಿಚಯ - ನಿರಂತರ ಮೌಲ್ಯಮಾಪನೆ -ಸಾಮರ್ಥ್ಯ ಅಧಾರ ಮೌಲ್ಯಮಾಪನೆ , ಮೌಲ್ಯಮಾಪನೆ ಸಾಧನಗಳು, ಮನೋವೈಜ್ಞಾನಿಕ ಪರೀಕ್ಷೆಗಳು, ಪ್ರಶ್ನೆಗಳ ಪ್ರಕಾರಗಳು - ಪ್ರಶ್ನೆಗಳ ನಿರ್ಮಾಣ - ಘಟಕ ಪರೀಕ್ಷೆಯ ತಯಾರಿ .

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

#### **CONTENT (Marks: 24)**

1. Parts of Speech
2. Tenses
3. Types of Sentences
4. Prepositions & Articles
5. Degrees of Comparison
6. Direct and Indirect Speech
7. Questions and question tags,
8. Active & Passive voice
9. Use of Phrases
10. Comprehension
11. Composition
12. Vocabulary,
13. Meaning of idiomatic expressions,
14. Correction of Sentences,
15. Sequencing of the Sentences in the given paragraph
16. 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
4. Development of Language skills:- a Listening, Speaking, Reading & Writing (LSRW). b) Communicative skills.
1. Approaches, Methods, Techniques of teaching English.
  - (a) Introduction, Definition and Types of approaches methods and techniques of teaching English
  - (b) 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 basing on CCE

### **IV. MATHEMATICS (Marks: 30)**

#### **CONTENT (Marks: 24)**

##### **1. Number System:**

Natural Numbers, Whole Numbers, Integers, Rational Numbers & their fundamental operations (addition, subtraction, multiplication and division). Primes Composite Numbers, Co-Primes, Twin Primes, Relationship between LCM & GCM, Indian currency, Representation of Natural, Whole, integers and rational numbers on a number line. Terminating and Non-terminating but recurring decimals, square, square root, cube, cube roots of numbers, Pythagorean triplets. Applications on number system

##### **2. Fractions:**

Concept of Fractions, Proper Fractions, Improper Fractions, Mixed Fractions, Decimal Fractions, Comparison, Fundamental operations on fractions (addition, subtraction, multiplication and division), Representation of a fraction in pictorial form and on a number line, reciprocal of fraction, uses of fractions in daily life.

**3. Arithmetic:**

Unitary method, percentages, profit and loss, ratio and proportion, direct proportion, discount, simple interest, compound interest, time and work, time and distance, tax (Vat).

**4. Geometry:**

Basic idea of geometry (2D & 3D shapes), types of angles, construction and measurement of angles, types of angles, lines, triangles, types of triangles, quadrilaterals, types of quadrilaterals, congruence, property of congruencies of triangles (SAS, SSS, ASA, RHS), construction of triangles and quadrilaterals, patterns with geometrical shapes, representing 3D Shapes into 2D Shapes, Euler's relation, Properties of triangles, parallelogram, trapezium, Rhombus, Rectangle, Square and Kite, Concept of Circles, Symmetry.

**5. Measurements:**

Length, Weight, Capacity, Time and their Standard Units, Surface Area and volume of a cube and a cuboids, perimeter and area of triangle, quadrilateral, parallelogram, rectangle, Rhombus, Square and Trapezium. Circumference of a circle, Area of Circle, Circular paths, other polygons and sector in a circle.

**6. Data Applications:**

Introduction to Data, Data Presentation, Preparation of Frequency distribution table, Bar Graph, Pictograph, Histogram, Mean, Median and Mode of ungrouped data, determination of Mean by deviation method, Cumulative Frequency Distribution Table, Frequency Polygon, Frequency Curve and Cumulative Frequency Curves.

**7. Algebra:**

Introduction to Algebra, Simple equations, solving linear equation in one variable, exponents and powers, Algebraic expressions, Addition, Subtraction, Multiplication, Division and Factorisation of algebraic expressions, algebraic identities.

**PEDAGOGY (Marks: 06)**

1. Definitions and Nature of Mathematics
2. Aims, values , instructional objectives and Academic Standards of teaching Mathematics
3. Methods of Teaching Mathematics
4. Instructional material in Mathematics - TLM in Mathematics
5. Instructional Planning
6. Designing, Administration, Analysis of scholastic Achievement test (SAT)
7. The Mathematics Teacher
8. Resource Utilization
9. Curriculum and Text Book
10. Diagnostic and Remedial Teaching

## **V. ENVIRONMENTAL STUDIES (Marks: 30) CONTENT**

### **(Marks: 24)**

- 1. My Family** - My Family - Family tree, migration, changing structures of family -nuclear and joint families, festivals.
- 2. Work & Play** - Occupations, Child labor, Games - Local, National and International, Marshal Arts, Effects of games on respiration and breathing, fairs, Circus.
- 3. Plants and Animals**-Plants & animals in our surroundings, Plant & Animal products, parts of a plant, photosynthesis, parts of a flower, pollination, fertilization, fruits, seeds. Wild & cultivated plants, wild & domestic animals their food, arrangement of teeth in animals.
- 4. Our Food** - Different types of food, storage of grains and vegetables, storage of food, Food - animal husbandry, Nutrients of food, deficiency diseases.
- 5. Shelter** - Need, different types of houses, electrical appliances - their use, social life in ants and honey bees, Animals shelter - variation.
- 6. Air** - Importance of air, composition of air, atmospheric pressure, diseases spread through air and their prevention, air pollution - causes, its impact, and measures to prevent, Green House effect.
- 7. Energy** – Renewable, Non-renewable, Future Energy.
- 8. Water** - Importance, water resources, tanks, aquatic flora and fauna, measurement of liquids, Water pollution - causes, impact, measures to prevent, purification of water, drought, floods.
- 9. Our Body - Health - Cleanliness** - External, Internal parts of our body, Bones, Muscles, Sense organs, Digestion, Respiration, Nervous system, Excretory system, Circulatory system, First Aid.
- 10. Mapping** - Direction, Mandal, District, State, India
- 11. History and culture of India** - Evolution of Man, Pre-historic period, Indian culture and Heritage, Civilization, Medieval period culture, Ancient monuments, Religious movements: Jainism, Buddhism, Bhakti movement, Great personalities, Indian freedom movement, Modern India.
- 12. Our country (India)** - Location, Area, Physical features, Climate, Natural resources, Continents and Oceans, Historical places in India, Population.
- 13. Our state (Telangana)** - Culture, State Government, Gram Panchayat, Mandal Parishad, Municipality, Municipal Corporation, Local Emergency services, our state symbols, Livelihood, Civilization - Impact of rivers.
- 14. Indian constitution** – Preamble, Major concepts, Fundamental rights, Fundamental duties, Child Rights
- 15. Security – Earth Quakes, Floods, Fire, First Aid, 108, 104 Vehicles**

### **PEDAGOGY (Marks: 06)**

1. Concept and scope of Environmental Studies (Science & Social Studies)
2. Aims & Objectives of teaching Environmental Studies (Science & Social Studies)
3. Relation to Science and Social Studies
4. Curriculum and its transaction
5. CCE
6. Learning Environment