

# **Maharashtra State Teacher Eligibility Test Syllabus**

## **1) Primary:**

### **For Mathematics:**

#### **»Number System**

- Digit
- Roman Numbers
- Commutative Property
- To find unit digit
- Fractions
- Recurring
- Decimal
- Factor
- LCM
- HFC
- Square
- Indices

#### **»Algebra**

- Polynomial
- Remainder Theorem
- Factor Theorem
- Linear Equation
- Methods to Solve Linear Equations in Two Variables
- Quadratic Equation
- Operation on Algebraic Expressions HFC and LCM of Algebraic Expression

#### **»Ratio and Proportion**

- Classification of Ratios
- Average
- Percentage
- Profit and Loss
- Simple Interest Compound Interest

#### **»Geometry**

- Plane Curve
- Point Lines
- Ray Angle
- Plane Figures
- Triangle
- Pythagoras Theorem Quadrilateral Circle
- Polygon Symmetry

## »Mensuration

- Area
- Perimeter
- Volume
- Surface Area

## **For Child Development and Pedagogy**

### > **Child Development:**

- Concept of Development
- What is Child Development
- Scope of Child Development
- Principles of Child Development
- Influence of Heredity and Environment on Child Development
- How learning is Co-related to Development?
- Socialisation Process
- Piaget, Kohlberg and Vygotsky: Constructs and Critical Perspective
- Kohlberg's Theory of Moral Development
- Concept of Child-Centered-Education
- Concept of progressive education
- Intelligence
- Multiple Intelligence
- Relationship between Language and Thought Gender as a Social Construct: Gender Roles, Gender-bias and Educational Practice
- Individual Difference Assessment
- Continuous and Comprehensive Evaluation(CCE)

### > **Pedagogy**

- How Children think and learn?
- Communication and Interaction
- Listening and Concentrating Schedule Pressure
- Active Learning
- How and Why Children Fail to Achieve Success in School Performance?
- How to Teach Different Subjects?
- Basic Processes of Teaching and Learning
- Learning Theories
- Freud's view of Learning: Discovery of the Unconscious
- Transfer of Learning Cognition and Emotion
- Motivation and Learning
- Factors Contributing to Learning Process
- Teacher's Duties and Responsibilities

## **Language I and Language II**

### **Language-I (English)**

1. type-I Unseen Passage (Prose)

2. type-II Unseen Passage (Poetry)

3. Pedagogy of Language Development : Learning and acquisition, Principles of language Teaching, Role of listening and speaking; function of language and how children use it as a tool, Critical perspective on the role of grammar in learning a language for communicating ideas verbally and in written form Challenges of teaching language in a diverse classroom; language difficulties errors and disorders, Language Skills, Evaluating language comprehension and proficiency: speaking, listening, reading and writing Teaching- learning materials: Textbook, multi-media materials, multilingual resource of the classroom Remedial Teaching.

### **Language-II (Marathi)**

#### **Comprehension**

- Two unseen prose passages (discursive or literary or narrative or scientific) with question on comprehension, grammar and verbal ability
- Pedagogy of Language Development
- Learning and acquisition
- Principles of language Teaching
- Role of listening and speaking; function of language and how children use it as a tool
- Critical perspective on the role of grammar in learning a language for communicating ideas verbally and in written form;
- Challenges of teaching language in a diverse classroom; language
- Difficulties, errors and disorders
- language skills
- Evaluating language comprehension and proficiency: speaking, listening, reading and writing

## **2) Upper Primary:**

### **For Mathematics:**

#### **»Number System**

- Digit
- Roman Numbers
- Commutative Property
- To find unit digit
- Fractions
- Recurring
- Decimal
- Factor
- LCM
- HFC
- Square
- Indices

#### **»Algebra**

- Polynomial
- Remainder Theorem
- Factor Theorem
- Linear Equation
- Methods to Solve Linear Equations in Two Variables
- Quadratic Equation
- Operation on Algebraic Expressions HFC and LCM of Algebraic Expression

#### **»Ratio and Proportion**

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#### **»Geometry**

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#### **»Mensuration**

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#### »Data Handling

- Data Representation
- Pictograph
- Interpretation of a Pictograph
- Organising Data grouping of Data Measures of Central Tendency

#### »Pedagogical Issues

- Nature of Mathematics
- Place of Mathematics in Curriculum
- Language of Mathematics Community Mathematics Evaluation
- Problems of Teaching Mathematics Diagnostic and Remedial Teaching

### **For Child Development and Pedagogy**

#### > **Child Development:**

- Concept of Development
- What is Child Development
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#### > **Concept of Inclusive Education and Understanding Children with Special Needs**

- What is Meant by Inclusive Education?
- Target Groups
- Addressing learners from Diverse Background Including Disadvantaged and Deprived
- Laws Relating to Deprived and Disadvantaged Sections Equalisation of Educational Opportunities
- Girl's Educations : Present Situation

- Constitutional Provisions
- Education of Scheduled Castes, Scheduled Tribes and Others Backward Sections
- Promoting Education among Backward Minorities
- Major Interventions
- Addressing the Needs of Children with Learning Difficulties, impairment etc
- What Inhibits Learning?
- Prevention, Early Identification and Intervention
- Education , Training and Employment
- Legislative Actions Concessions
- Addressing the Talented, Creative and Specially Abled Learners
- Creative and Talented Traits Common to Gifted Children
- How to Tackle Gifted/Talented Children in the Classroom?
- Techniques for Parents
- > **Pedagogy**
  - How Children think and learn?
  - Communication and Interaction
  - Listening and Concentrating Schedule Pressure
  - Active Learning
  - How and Why Children Fail to Achieve Success in School Performance?
  - How to Teach Different Subjects?
  - Basic Processes of Teaching and Learning
  - Learning Theories
  - Freud's view of Learning: Discovery of the Unconscious
  - Transfer of Learning Cognition and Emotion
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- language skills
- Evaluating language comprehension and proficiency: speaking, listening, reading and writing
- Teaching — learning materials: Textbook, multi-media materials, multilingual resource of the classroom
- Remedial Teaching