

Chhattisgarh State Teacher Eligibility Test 2018-19

Syllabus

Paper I (For classes I to V)

1. Child Development and Pedagogy :

(This section will contain 30 questions and total marks will be 30)

Unit 1: Introduction to child development :

7 marks

- Concept of development, stages of development – pre natal/ infancy/ early and post childhood/ adolescence.
- physical, cognitive, social development.
- factors affecting development– nature, nutrition, continuity and discontinuity, early and later experiences, social and cultural background of child development.
- knowledge about different methods to study children

Unit 2: Dimensions of Development :

7 marks

- (a) Physical and motor development, development of physical control and coordination
- (b) Emotional and Moral development.

Some basic principles, change in the body parts and their proportions, development of control (macro and micro), emotional development, moral development, (school and home environment, friend/peer, groups and relation with adults, social and cultural background of child development, personality development and socialization

Unit 3: Learning and cognitive development :

9 marks

- What is learning and how children learn?
- Review of different theories- behavioral, structural, social concepts. What is Cognition?
- Views of Jean piaget on children's thinking, construction of knowledge, schema, assimilation, accommodation, organization, equilibration, characteristics of adolescent thinking what is mental operation, development of thinking from early childhood to adolescence and its stages, sensory, motor, pre-operation, concrete operation, formal operation, educational importance of

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Piaget's theories, Lev Vygotsky's theory, Zone of Proximal development (ZPD), Role of teachers in scaffolding.

- Child as a problem solver and a scientific investigator.
- Alternative conceptions of learning in children, understanding children's 'errors' as significant steps in learning process.
- Motivation and learning.

Unit 4: Children with Special Needs :

7 marks

Children with Special Needs- meaning, defect, damage, disability, similarity in differences, working with differently abled children

Knowledge and Syllabus- need of a syllabus, concept of syllabus, concept of curriculum, problems in syllabus construction, criteria for the selection of syllabus, Right to Education Act-2009 (role and responsibilities of teachers), child rights.

2.

Language – 1 (Hindi)

(प्रश्न पत्र के इस भाग में 30 अंकों के कुल 30 प्रश्न होंगे)

	अंक
इकाई-1 : वर्ण विचार स्वर, व्यंजन, अक्षर, वर्तनी, लिंग, वचन आदि। संधि (स्वर-संधि, व्यंजन संधि, विसर्ग संधि),	03
इकाई-2 : शब्द विचार शब्द रूप और शब्द रचना, स्रोत के आधार पर शब्दों के वर्ग- तत्सम, तद्भव, देशज, विदेशी; अर्थ के आधार पर शब्द भेद -पर्यायवाची शब्द, विलोम शब्द, अनेकार्थी शब्द।	04
इकाई-3 : शब्द रचना उपसर्ग, प्रत्यय, समास, , अनेक शब्दों या वाक्यांश के लिए एक शब्द।	04
इकाई-4 : पद व पद-भेद संज्ञा, संज्ञा के प्रकार, कारक-चिह्न, सर्वनाम, विशेषण, क्रिया, ।	03
इकाई-5 : वाक्य परिचय वाक्य के अंग, वाक्य के भेद, पदक्रम।	03
इकाई-6 : रचना मुहावरे तथा लोकोक्तियां ,अपठित गद्यांश	04
इकाई-7 : बच्चों की भाषाई विकास की प्रक्रिया:- भाषा विकास के चरण । बच्चे स्कूल आने से पहले क्या-क्या, सीख कर आते हैं। बच्चे भाषा कैसे सीखते हैं। स्कूल आने वाले बच्चों में भाषा सीखने की प्रक्रिया के गुण । बच्चों की भाषा सीखने की क्षमता ।	03
इकाई-8 बच्चों में भाषाई क्षमता एवं उनका विकास:- पढ़ना क्या है? अर्थ निकालने की प्रक्रिया। भाषा ,अर्थ ग्रहण करना एवं अर्थ निर्माण । भाषा सुनना,बोलना,पढ़ना,लिखना और इसका अंतः संबंध ।	03
इकाई-09 : मूल्यांकन :-	03

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भाषा में मूल्यांकन क्यों? एवं उसकी प्रकृति बच्चों में भाषा क्षमता के आकलन के संभावित तरीके भाषा सीखने, लिखने व पढ़ने की प्रक्रियाओं में गलतियों की भूमिका।

3. **Language – 2 (English)**

(30 Multiple Choice Questions of 30 Marks will be asked from this part of Question Paper)

C) Comprehension (15 Questions)

Two unseen prose passages with questions on: comprehension, grammar and verbal ability

- iv) Comprehension (7 marks)
- v) Grammar (4 marks)
- vi) Vocabulary (4 marks)

D) Pedagogy of Language Development (15 Questions)

- Learning and acquisition (1 mark)
- Principles of Language Teaching (1 mark)
- Role of listening and speaking; function of language and how children use it as a tool (2 marks)
- Critical perspective on the role of grammar in learning a language for communicating ideas verbally and in written form (1 mark)
- Challenges of teaching language in a diverse classroom; language difficulties, errors and disorders (2 marks)
- Language Skills (4 marks)
- Evaluating language comprehension and proficiency: speaking, listening, reading and writing (2 marks)
- Teaching – learning materials: Textbook, multi-media materials, multilingual resource of the classroom (1 mark)
- Remedial Teaching (1 mark)

4. **Mathematics**

(30 Questions of 30 Marks will be asked from this part of Question Paper)

Unit 1: Nature of mathematics : 07

How mathematical thoughts are developed? Nature of mathematics. Thinking in mathematical manner, abstraction, specialisation and generalisation.

Unit 2: Teaching-learning and evaluation of mathematics : 07

Preparation of models for learning, learning means rote learning (banking model), learning means programming learning means construction of understanding, existing practices in teaching, evaluation in class room, constructivism development of abstract thoughts, conceptual and procedural knowledge.

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- 3.1 Decimal System :
Metric system, length, area, volume, mass, measurement of time.
- 3.2 Numbers :
Integers, even, odd, indivisible and divisible numbers, ascending and descending orders, place value.
- 3.3 Simple and decimal fractions :
Comparison of fractions, their rules, conversion of decimal fraction into simple fraction.
- 3.4 Equation of numeral expressions :
Simplification of expressions, use of BODMAS
- 3.5 Square root :
Methods of square root calculation- multiplication and division method.
Calculation of square root of decimal numbers
- 3.6 HCF and LCM :
What are HCF and LCM? Formula to solve related problems.
- 3.7 Average :
Methods for calculation of average
- 3.8 Percentage :
Meaning of percentage, conversion of percentage into decimal and conversion of decimal into percentage.
- 3.9 Simple Interest.
- 3.10 What is simple interest? Formulae for related questions.
- 3.11 Profit and loss.
- 3.12 Purchase-sale value, profit-loss and expressing them in percentage and Rupees.
- 3.13 Laws of Ratio & Proportion.
- 3.14 Laws of Ratio & Proportion simple.
- 3.15 Speed, time, and distance.
- 3.16 Formula to calculate speed, time and distance.
- 3.17 Unitary law, time, work and wages.

- 3.18 Area and magnitude.
- 3.19 Volume :
Measurements of solids- length, breadth and height, volume of cube and cuboid.
- 3.20 Time.

5. Environmental Studies

- (30 Questions of 30 Marks will be asked from this part of Question Paper)**
- Unit 1 Understanding on own environment 3**
What is environment? Components of environment- Social, economical, natural, cultural. Interaction among components of environment. Relevance of environment in present context, Interesting environment from children's point of view.
- Unit 2 Understanding of children on environment 4**
Understanding of children, perception of children, understanding of children of 5 to 7 and 8 to 14 year about environment. How to assess the knowledge of children about environment? How do children learn? Role of adults and society in learning of sounds and experience of children.
- Unit 3 Why to teach environmental studies 3**
Relevance of environmental studies in curriculum, formation of concepts, concepts of social studies at primary level. What is skill? Development of skills.
- Unit 4 Teaching of Social Studies 4**
Teaching of science, teaching of social studies, activities in class room teaching- reading of pictures, understanding of pictures drawn by children, understanding of day-night and seasons, measurement of time, reading and understanding of maps.
- Unit 5 Environmental studies and class room activities 4**
What is activity? Collection of materials for activities, planning and organisation of class room activities, small activities and discussion on them,

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field trips, survey, project, library- as learning resource, evaluation, good class room.

- Unit 6 Family 4**
Inter-relation, nuclear and joint family, social evils (child marriage, dowary system, child labour, theft), addiction (intoxication, smoking) and their ill effects on individuals, society and economy.
- Unit 7 Care of ones own body 4**
Care for ones own body- external parts of body and their cleanliness, general information of internal system of human body, information on balanced diet and its importance, general diseases (amoebiasis, metahaemoglobin, anemia, flurosis, malaria, dengue) causes and measures for their prevention vactination and pulse polio project.
- Unit 8 Ecological System 4**
Structure of ecological system, living and non living components, food chian and food web, cycle of materials.

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Syllabus

Paper II (For classes IV to VIII)

1. Child Development and Pedagogy

(This section will contain 30 questions and total marks will be 30)

Unit 1: Development of child (Primary School Child) 7 marks

Concept of development and its relation with learning, various theories of children's development, effect of heredity and environment, critical perspective of the construction of intelligence, multiple intelligence, language and thought, individual difference among the learners, language differences, differences in comprehension or understanding based on sex, community, caste and religion, difference between evaluation for learning and evaluation of learning, school based evaluation, continuous and comprehensive evaluation, perspective and practice

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Unit 2: Concept of Inclusive education and teaching children with special needs 5 marks

Education of children from deprived and weaker section of the society, difficulty in learning, teaching differently abled children, teaching creative children and children with special abilities

Unit 3: Learning and Pedagogy

10 marks

Basic methods of teaching-learning, strategies for ensuring learning of children, learning through social activities, social context of learning, children- as a scientist to do some research and as a person to solve the problems. Cognition and emotions, motivation and learning, factors contributing for effective learning - individual and environmental.

2.

भाषा 1 हिन्दी

(प्रश्न पत्र के इस भाग से 30 बहुविकल्पी प्रश्न पूछे जाएँगे)

	अंक
इकाई-1 : वर्ण विचार :	05
स्वर, व्यंजन, अक्षर, वर्तनी, लिंग, वचन, काल, वाक्य, संधि और संधि के प्रकार, संधि-विच्छेद।	
इकाई-2 : शब्द विचार :	06
शब्द रूप और शब्द रचना। स्त्रोत के आधार पर शब्दों के वर्ग- तत्सम, तद्भव, देशज, विदेशी। अर्थ के आधार पर शब्द भेद - पर्यायवाची शब्द, विलोम शब्द, अनेकार्थी शब्द, शब्द-युग्म शब्द रचना-उपसर्ग, प्रत्यय, समास और उसके भेद, अनेक शब्दों या वाक्यांश के लिए एक शब्द; शब्द-शक्ति।	
इकाई-3 : पद व पद-भेद :	05
संज्ञा, संज्ञा के प्रकार, सर्वनाम, विशेषण, क्रिया, कारक-चिह्न।	
इकाई-4 : वाक्य परिचय :	02
वाक्य के अंग, एवं वाक्य भेद।	
इकाई-5 : विराम चिह्न- प्रमुख प्रकार।	02
इकाई-6 : रचना, मुहावरे तथा लोकोक्तियाँ।	04
इकाई-7 : अपठित गद्यांश।	03
इकाई-9 : भाषाई कौशलों का अध्यापन :	03
श्रवण, वाचन, लेखन, एवं पठन कौशल।	

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3.

भाषा 2 (अंग्रेजी) English

(30 Multiple Choice Questions of 30 Marks will be asked from this part of Question Paper)

C. Comprehension

(15 Questions)

- a. One unseen prose passage with questions on: comprehension, grammar and verbal ability
- i. Comprehension (5 marks)
 - ii. Grammar (3 marks)
 - iii. Vocabulary (2 marks)
- b. One unseen poem with questions on: comprehension, grammar and verbal ability
- i. Comprehension (3 marks)
 - ii. Vocabulary (2 marks)

D. Pedagogy of Language Development

(15 Questions)

- Learning and acquisition (1 mark)
- Principles of Language Teaching (1 mark)
- Role of listening and speaking; function of language and how children use it as a tool (2 marks)
- Critical perspective on the role of grammar in learning a language for communicating ideas verbally and in written form (1 mark)
- Challenges of teaching language in a diverse classroom; language difficulties, errors and disorders (2 marks)
- Language Skills (4 marks)
- Evaluating language comprehension and proficiency: speaking, listening, reading and writing (2 marks)
- Teaching – learning materials: Textbook, multi-media materials, multilingual resource of the classroom (1 mark)
- Remedial Teaching (1 mark)

4.

Mathematics and Science

(30 Multiple Choice Questions of 30 Marks will be asked in Mathematics and 30 Multiple Choice Questions of 30 Marks will be asked in Science from this part of Question Paper)

Unit 1: Nature of mathematics, Teaching-learning and evaluation of mathematics :

05

How mathematical thoughts are developed? Nature of mathematics. Thinking in mathematical manner, abstraction, specialisation and generalisation. Preparation of models for learning, learning means rote learning (banking model), learning means programming, learning means construction of understanding, existing practices in teaching, evaluation in class room, constructivism development of abstract thoughts, conceptual and procedural knowledge.

Unit 2

05

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Exponent: Multiplication and division of exponential numbers with equal exponents, Law of exponent. Algebraic expressions: Addition, Subtraction, Multiplication and division on algebraic expressions, equations.

Series: Parallel series and , nth term, sum of nth term.

Unit 3

05

Interest: Simple Interest, Compound Interest, Profit-Loss.

Ratio and proportion: distribution in proportion

Percentile, Birth and Death rate, Population growth, decrease rate

Time and distance: Speed, average speed, time, relative motion.

Unit 4

05

Line and angle: Line segment, straight and curved lines, types of angles.

Plane shapes: Triangle, congruency of triangle, quadrilateral and circle.

Unit 5

05

Area of plane objects: Triangle, rectangle, parallelogram and trapezium.

Surface area and volume- Cube, cuboids and right circular cylinder

Unit 6

05

Statistics: Collection of data and classification, frequency distribution table, tally sign, bar graph and rectangle graph, circular graph (pi chart). Graph: different types of graphs.

Unit 7

06

Living things-

- Characteristics of living organisms.
- Classification of living organism.
 - Aquatic and teritorial.
 - Herb, shrub, Tree and climbess.
 - Classification of Linius.
 - Classification of whitekal.
- Stucture of living organism : Cell, cell division tissue, various organ system, organ systems of human being.
- Our Environment - Structure of ecological system, living and non living components, food chian and food web, flow of energy in ecological system, cycle of materials.

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- Human body and health- microbes(bacteria, virus, fungi), diseases spread by Microbes (TB, measles, diphtheria, cholera, typhoid), prevention from diseases, different systems of human body, infectious diseases (causes and prevention), components of food and diseases due to their deficiency, balanced diet.

Unit 8

06

Force and motion- Types of forces (muscular forces, frictional force, gravitational force, magnetic force, electrostatic force, etc.), types of motion (linear, random, circular, vibrational motion and periodic motion), speed. Types of energy, traditional and alternative sources of energy.

Heat - uses of heat, transmission of heat, concept of temperature, melting, boiling and evaporation, condensation and sublimation, examples of thermal expansion in daily life, good and bad conductors of heat, methods of heat transmission (conduction, convection and radiation)

Unit 9

06

Light- source of light, formation of shadow, reflection of light, formation of images by plane mirror, spherical mirrors (focus, focal length, center of curvature), formation of images by convex and concave mirrors, uses of lenses.

Sound- types of sound, transmission of sound, characteristics of sound, echo of sound, noise and methods to reduce noise.

Magnetism- Properties of magnet, magnetic induction, different uses of magnetism.

Unit 10

06

Electricity - Electric cell, direct and alternating current, conductor, semi-conductor and bad conductors and their uses, chemical properties of electric current, magnetic and heating effect of current, electric fuse, electric energy and prevention from misuse.

Science and Technology- Importance of science in daily life, artificial fibers, plastic, detergent, cement, etc. Science and technology in medical field (X-ray, CT scan, surgery, ultrasound and laser rays), Science and technology in telecommunications- Fax machine, computer, internet, e-mail and general information of website

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Unit 11

06

Structure of matter- Atom and molecule, structure of atom, element, compound and mixture, separation of impurities, symbols of elements, chemical formulae of compounds and chemical equations.

Chemical substances - Oxides of carbon, green house effect and global warming, hydrocarbons (general information), acid, base and salts, oxygen gas, nitrogen gas, nitrogen cycle.

5. Social Science

(There will be total 60 marks and 60 questions in this part)

Unit I: Indian Society

4 marks

Characteristics, Family, Marriage, Status of women, Current and social Problems -Casteism, Provincialism, Poverty, Child labour, Urbanization

Unit II: Indian Culture and heritage

4 marks

Sources of Indian history, Indus Valley Civilization, Vedic Culture

Unit III: Maurya Dynasty and Gupta Dynasty

4 marks

Political history (background) and administration, contribution towards Indian Culture, Cultural achievement during Gupta Period, Relation between Indian culture and the world

Unit IV: Bhakti and Sufi Movement

4 marks

Social importance, Cultural unity among Hindus and Muslims

Unit V: Mughal Dynasty

4 marks

Relation between Mughal and Rajput, Administration during Mughal period, Social, Economical and Cultural situations

Unit VI: British Period

4 marks

British policy for Indian States, revolution of 1857 and its effects

Unit VII: Indian Constitution

4 marks

Characteristics, fundamental rights and duties

Unit VIII: Regulatory, Executory and Judicial systems

4 marks

Constitution- Lok Sabha, Rajya Sabha, President and Governor - Constitutional Rights and their Powers, Prime Minister and its Ministers, Urban and local governing body.

Unit IX: Earth and its Important Components **4 marks**

Stratosphere, Ionosphere, Lithosphere, Atmosphere, Biosphere, Kinds of rocks, effects of transformative powers on the surface of the earth - Earthquakes and Volcanoes, Rivers, underground water, Glaciers, Winds, sea waves.

Unit X: Study of India **4 marks**

Physical boundaries of the states, Climate, Natural vegetation, Green revolution, Multi-purpose planning, Industries and Human resources.

Unit XI: Chhattisgarh - its geographical conditions and resources **5 marks**

Demographic boundaries (state), Soil, Climate, Sources of water and Water preservation, Forest and wild life, Agriculture, Minerals, Energy resources, transportation and Industries

Unit XII: History and Culture of Chhattisgarh **5 marks**

Independence movement in Chhattisgarh, Important personalities in Chhattisgarh, Culture and Heritage of Chhattisgarh (Forts, palaces, fairs, festivals, folk arts, handicrafts), Tourism.

Unit XIII: Pedagogical issues **10 marks**

- Concept & nature of Social Science/Social Studies.
- Class room processes, activities and discourse.
- Problems of teaching Social Science/Social Studies.
- Projects Work.
- Evaluation.

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