

BOARD OF SECONDARY EDUCATION, ODISHA, CUTTACK
ODISHA TEACHER ELIGIBILITY TEST (OTET) - 2021 (1ST)

DETAILED SYLLABUS FOR OTET
PAPER - I

SECTION - A : CHILD DEVELOPMENT AND PEDAGOGY

Unit - 1 : - Understanding Child Development during Childhood (focus on children at primary level)

- Concept, principles and stages of child development
- Characteristics of physical, cognitive, social, emotional and moral development in childhood
- Influence of heredity and environment in understanding the child

Unit - 2 : - Understanding Learning Process and Learners

- Learning - concept, nature and individual differences in learning
- Understanding how child learns - learning through observation, limitation
- Understanding how child learns - various methods of learning
- Basic conditions of learning and promotion of learning through motivation, classroom learning environment and teacher behaviour
- Development of creative thinking

Unit - 3 : - Concept of Inclusive Education and Understanding Children with special needs

- Concept of inclusive education
- Addressing the needs of diverse group of learning in inclusive classroom (CWSN, girls, SC / ST)
- Addressing the talented, creative learning

Unit - 4 : - Approaches to teaching and learning

- Teacher - centred, learner - centred and learning - centred approach
- Competency - based and activity - based approach
- TLM - its importance, use and preparation for classroom transaction
- Teaching competency to handle mono - grade and multi - grade situation

Unit - 5 : - Assessment

- Continuous and comprehensive assessment
- Purpose of assessment
- Assessing scholastic and other scholastic areas
- Sharing of assessment outcomes and follow up

TEST SERIES
Bilingual



REET | RTET
2020-21
LEVEL 1

20 TOTAL TESTS

SECTION B : LANGUAGE (ODIA/URDU/HINDI/TELUGU/BENGALI)

GROUP - A : (PEDAGOGY)

Unit - 1 : - Learning Odia / Urdu / Hindi / Telugu / Bengali at elementary level

- Aims and objectives of teaching Odia / Urdu / Hindi / Telugu / Bengali as mother tongue
- Principles of language teaching
- Acquisition of four - fold language skills in Odia / Urdu / Hindi / Telugu / Bengali viz., listening, speaking, reading and writing
- Interdependence of four language skills
- Objectives and strategies of transacting integrated text for the beginners

Unit - 2 : - Teaching, Reading and Writing Skills

- Technique of developing intensive and extensive reading skills
- Teaching - learning composition and creative writing
- Critical perspective on the role of grammar in learning language for communicating ideas in written form
- Challenges of teaching language in a diverse classroom, language difficulties and errors

GROUP - B : (CONTENT)

Unit - 3 : - Assessment of learning Odia / Urdu / Hindi / Telugu / Bengali

- Assessment language comprehensive and proficiency : speaking, listening, reading, writing - construction of different types of test items
- Remedial teaching

Unit - 4 : - Language items

- Part of speech - Noun, Pronoun, Verb, Adverb, Adjectives, Conjunction
- Formation of words - using prefix and suffix
- Synonyms and antonyms
- Phrases and idioms

Unit - 5 : - Language Comprehension

- Reading two unseen passages - one passage from prose and one poem with questions on comprehension, drama, inference, grammar and verbal ability (prose passage may be literary, scientific, narrative or discursive)

SECTION C : LANGUAGE (ENGLISH)

GROUP - A : (PEDAGOGY)

Unit - 1 : - Learning English at the Elementary Level

- Importance of learning English
- Objectives of learning English (in terms of content and competence specifications)

Unit - 2 : - Language Learning

- Principles of language teaching
- Challenges of teaching language in a diverse classroom

Unit - 3 : - Skills in learning English

- Four - fold basic skills of learning viz., listening, speaking, reading and writing : interdependence of skills
- Techniques and activities for developing listening and speaking skills (recitation, story telling, dialogue)
- Development of reading skills : reading for comprehension, techniques and strategies for teaching, reading (phonic, alphabet, word, sentence and story)
- Development of writing skill - teaching composition

Unit - 4 : - Assessment of English

- Assessing language comprehension and proficiency : listening, speaking, reading, writing

GROUP - B : (CONTENT)

Unit - 5 : - Comprehension

- Two unseen prose passage (discursive or literary or narrative or scientific) with questions on comprehension, grammar and verbal ability

Unit - 6 : - Language items

- Nouns, Adverbs, Verbs, Tense and Time, Preposition, Articles, Adjectives, Prepositions, Punctuation



SECTION D : MATHEMATICS

GROUP - A : (PEDAGOGY)

Unit - 1 : - Mathematics Education in Schools

- Nature of Mathematics (exactness, systematic, patterns, preciseness)
- Aims and objectives of teaching Mathematics
- Specific objectives of teaching Mathematics

Unit - 2 : - Methods and Approaches to Teaching - Learning Mathematics

- Methods : Inductive, deductive, analysis, synthesis, play - way
- Approaches : Constructivist and Activity - based

Unit - 3 : - Assessment in Mathematics

- Assessment in Mathematics
- Formal and informal assessment
- Different types of test items
- Planning for remedial and enrichment programme in Mathematics

GROUP - B : (CONTENT)

Unit - 4 : - Number System and Operation in Numbers

- Number system (natural, whole, rational, real)
- Fundamental operation on numbers
- Fractional numbers and decimals - operations in fractional numbers and decimals
- Factors and multiples - HCF and LCM
- Percentage and its application

Unit - 5 : - Measurement

- Measurement of length, weight, capacity
- Measurement of area and perimeter of rectangle and square
- Measurement of time (concept of am, pm and time interval)

Unit - 6 : - Shapes and spatial Relationship

- Basic geometrical concepts (point, line segment, ray, straight line, angles)
- Geometry of triangles, quadrilaterals and circles
- Symmetry
- Geometrical slides (cube, cuboid, sphere, cylinder cone)

Unit - 7 : - Data Handling and Patterns

- Pictography, bar graph, histogram, pie chart
- Interpretation of these graphs
- Patterns in numbers and figures

SECTION E : ENVIRONMENTAL STUDIES (EVS)

GROUP - A : (PEDAGOGY)

Unit - 1 : - Concept

- Concept and Significance
- Integration of Science and Social Science
- Aims and objectives of teaching and learning EVS

Unit - 2 : - Methods and Approaches

- Basic principles of teaching EVS
- Methods : Survey, Practical Work, discussion, observation, project
- Approaches : Activity - based, theme - based

Unit - 3 : - Evaluation in EVS

- Tools and techniques for evaluation learning in EVS
- Diagnostic assessment in EVS

Unit - 4 : - Governance

- Local - self, Government - State and Central
- Judiciary

Unit - 5 : - Physical Features of Odisha and India

- Landscape
- Climate
- Natural resources
- Agriculture and industry

Unit - 6 : - History of Freedom Struggle in India and Odisha

Unit - 7 : - Health and Diseases

- Nutritional, elements, balanced diet
- Nutritional, deficiency and diseases
- Waste materials and disposal
- First - aid
- Air and water pollution

GROUP - B : (CONTENT)

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Unit - 8 : - Internal Systems of Human Body

- Respiratory, circulatory, digestive and excretory system - structure and parts of plant - structure and function

Unit - 9 : - Matter, Force and Energy

- Matter and its properties
- Earth and sky, effect of rotation and revolution of earth
- Work and energy

PAPER - 2

SECTION A : CHILD DEVELOPMENT AND PEDAGOGY - 30 MARKS

Unit - I : - Child Development (Focus on Upper Primary School Children)

- Features of Physical, Cognitive, Social, Emotional & Moral development during pre - adolescence and adolescence
- Effect of Heredity and Environment on development
- Needs and problems of adolescents
- Individual differences among learners

Unit - II : - Learning

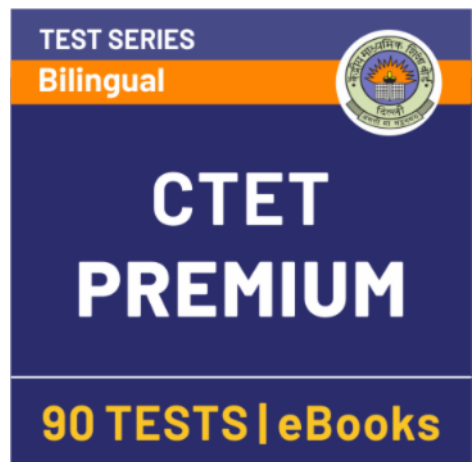
- Learning as meaning making knowledge and construction
- How children learn - observation, initiation, trial, error, experience
- Learning as social activity
- Rote learning and meaningful learning
- Factors affecting learning
- Strategies for promoting lessons
- Addressing learners from diverse background including disadvantaged and deprived
- Addressing the needs of children with learning difficulties and impairment
- Addressing the talented, creative and specially abled learners

Unit - III : - Curriculum Teaching - Learning Approaches and Evaluation

- Teacher - centred, learner centred and learning - centred approaches
- Principles of curriculum organization
- Teaching learning aids
- Continuous comprehensive assessment of learning, planning and designing achievement tests, rating scale, check list
- Test reliability and validity
- Date representation - mean, mode and median and standard deviation

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GROUP A (PEDAGOGY)**Unit - 1:** - Learning Odia / Urdu / Hindi / Telugu / Bengali at Upper Primary Level

- Aims and objectives of learning Odia / Urdu / Hindi / Telugu / Bengali as first language
- Principles of teaching mother tongue
- Development of language skills (speaking, reading, writing and listening)

Unit - 2: - Teaching Language

- Intensive and Extensive reading skills at upper primary level
- Teaching of non - detailed and detailed texts (prose, poetry)
- Teaching of composition and creative writing
- Teaching of grammar
- Challenges of teaching Odia / Urdu / Hindi / Telugu / Bengali in multi - lingual context

Unit - 3: - Assessment of Language

- Assessment of learning Odia / Urdu / Hindi / Telugu / Bengali language - listening, speaking, reading and writing
- Planning and designing achievement tests and other tools for assessment

GROUP B (CONTENT)**Unit - 4:** - Elements of Odia / Urdu / Hindi / Telugu / Bengali Language

- Comprehension of two unseen passages (one from prose / drama and other from poem) with test items on comprehension, vocabulary and grammar.

Unit - 5: - Language Items

- Parts of speech (noun, pronoun, verb, adverb, adjectives, conjunction)
- Formation of words (pre - fix and suffix)
- Vocabulary (spelling and meaning of synonym and antonym)
- Phrases and idioms

Unit - 6: - Contribution of famous literates for development of Odia / Urdu / Hindi / Telugu / Bengali language

- Odia - Fakir Mohan Senapati, Gangadhar Meher, Radhanath Ray, Surendra Mohanty, Gopinath Mohanty
- Urdu - Altaf Hussain Hali, Niaz Fatepuri, Ali Sardar Jafri, Amir Khusroo, Majrooh Sultanpuri
- Hindi - Bharatendu Harischandra, Mahavir Prasad Dwivedy, Prem Chand, Jayashankar Prasad, Suryakanta Tripathy Nirala
- Bengali - Rabindra Nath Tagore, Sarat Chandra Chhatopadhyay, Tarasankar Bandopadhyay, Kzi Nazrul Islam, Bibhuti Bhusan Bandopadhyay
- Telugu - Srinanthadu, Gurajuda Appa Rao, Kandukuri Veeresalingam, Arudra, C. Narayan Reddy

SECTION C : LANGUAGE II (ENGLISH) 30 MARKS

GROUP A (PEDAGOGY)

Unit - 1 : - Learning English at Upper Primary Level

- Importance of learning English
- Objective of learning English

Unit - 2 : - Development of English Language Skills

- Basic skills of language (listening, speaking, reading, writing), interdependence of skills
- Teaching of prose, poetry and composition
- Teaching of creative writing
- Principles of language teaching
- Challenges of teaching English as second language at upper primary level

Unit - 3 : - Assessment of learning English Language

- Assessment of comprehension and language skills (listening, speaking, reading and writing)

GROUP B (CONTENT)

Unit - 4 : - Comprehension

- Two unseen passages (one from prose / drama and another from poem) with questions on comprehension, grammar)

Unit - 5 : - Language Items

- Parts of speech, tense, voice change and change of narration, use of article, use of punctuation mark
- Vocabulary - meaning and spelling

SECTION D : MATHEMATICS (ONLY FOR MATHEMATICS AND SCIENCE TEACHER)

30 marks

GROUP A (PEDAGOGY)

Unit - 1 : - Mathematics at Upper Primary Stage

- Nature of Mathematics - logical, systematic, abstractions, pattern, mathematical language
- Aims and objectives of teaching Mathematics
- Specific objectives of teaching Mathematics

BILINGUAL

**CTET EXAM 2020
LIVE ONLINE CLASSES**

सार्थक Batch

Starts Nov 23, 2020 10 AM to 03 PM

Unit – 2 : - Methods and Approaches to Teaching – Learning Mathematics

- Methods : induction, deduction, analysis and synthesis
- Approaches : Constructivist and activity – based

Unit – 3 : - Evaluation in Mathematics

- Formal and informal evaluation
- Error analysis
- Remedial and enrichment programmes

GROUP B (CONTENT)

Unit – 4 : - Number System

- Number System (focus on real and rational numbers)
- Properties in different number systems

Unit – 5 : - Algebra

- Basic concepts : terms, co - efficient, powers
- Algebraic equations and their applications (with one variable)
- Polynomials – operations in polynomials
- Laws of indices
- Identities

Unit – 6 : - Commercial Arithmetic

- Percentage and its application (profit and loss, simple and compound, interest, banking, rebate)
- Ratio and proportion
- Variation and its application
- Square, square root, cube, cube root of natural numbers

Unit – 7 : - Shapes and Spatial Relationship

- Triangles and Quadrilaterals
- Angles, complementary and supplementary angles, opposite angles, exterior angles of the triangle
- Angle sum property
- Parallel lines and properties relating to parallel lines
- Congruency and similarities
- Mensurations (area and circumference of circle, higher order problems relating to area of square, triangle, rectangle, parallelogram, trapezium, Pythagorean theorem)

GROUP A (PEDAGOGY)

Unit - 1 : - Nature of Science

- Aims and objectives of teaching learning science at upper primary stage

Unit - 2 : - Methods and Approaches

- Methods : Observation, Experimentation, Discovery, Project and Problem - solving
- Approaches : Integrated approach, constructivists approach

Unit - 3 : - Evaluation in Science

- Tools and techniques for assessing learning in Science

GROUP B (CONTENT)

Unit - 4 : - Physical Science

- Metal, non - metal and metalloid
- Elements and compounds
- Symbol, valence and chemical equation
- Acid, base and salt
- Physical and chemical change in matters
- Force, motion, friction, pressure in solid, liquid and gases
- Electricity and current chemical effects of electric current
- Refraction and reflection of light
- Solar system and planets

Unit - 5 : - Life Science

- Biological adaptation among living beings
- Respiration and transpiration
- Soil and forest resource
- Cell structure and function of cell organelle
- Micro - organisms
- Adolescence in human being



GROUP A (PEDAGOGY)

Unit - 1 : - Aims and Objectives of Teaching Social Studies

- Importance of teaching - learning Social Sciences at upper primary stage
- Aims and objectives of teaching - learning Social Sciences
- Specific objectives of teaching - learning Social Science

Unit - 2 : - Methods and Approaches

- Methods : Survey, field work / trips, project, group work
- Approaches : Activity - based, theme - based

Unit - 3 : - Evaluation in Social Science

- Tools and technique for assessment of learning in Social Science
- Diagnostic assessment and remedial teaching

GROUP B (CONTENT)

Unit - 4 : - History and Political Science

- Methods of historical studies, social, economic and political conditions of sultanate, moghul and British period
- Slave, Khiligi, Tughlaq, Lodi Dynasty
- East India Company, British Crown, Impact of British rules, Ancient period, Kharabela, Ashoka
- Soma, Garganga, Surya, fall of Odisha, Odisha under Moghuls
- Nationalist movement in India
- Development of Nationalism and Europe

Unit - 5 : - Political Science

- Indian Constitution
- Human Rights
- Governance at Central, State and Local level
- Political Parties and pressure group

Unit - 6 : - Geography

- Odisha Geography - physical features, climate, agriculture and industry
- Natural resources (land, water, forest and wild animals, minerals)
- Atmosphere, biosphere and hydrosphere
- Earth - crust, internal structure, landscape (hills and mountains, plature, plains, rivers)
- Temperature zones of earth

