

APPENDIX – I

STRUCTURE AND CONTENT OF SYLLABUS

A. Paper I: Primary Stage (for classes I to V)

I. Child Development and Pedagogy

30 Questions

(a) Child Development (Primary School)

10 Questions

- Concept of development and its relationship with learning
- Principles of growth and development of children (up to 11 years)
- Causes of individual differences Heredity & Environment
- Social and Emotional development, Piaget's stages of cognitive development
- Concepts of child-centered and progressive education
- Concept and types of Intelligence, Multiple Intelligence, Emotional Intelligence
- Measurement of Intelligence
- Concept of Personality, Development of Personality in Childhood
- Adjustment and Mental Health

(b) Learning

10 Questions

- How children think and learn
- Concept and nature of learning, learning styles
- Theories and principles of Conditioning, Cognitivism, and Constructivism
- Factors affecting Learning: Motivation, Attention, Memory, Emotion, etc.
- Transfer of Learning: Concept, Types, Methods
- Information Processing and Thinking: Critical thinking, problem-solving, divergent thinking, creativity, and innovation.

(c) Curriculum, Pedagogy, and Evaluation

7 Questions

- Concept and Principles of Curriculum
- Types of Curricula
- Factors Affecting Curriculum Transaction
- Concept and Forms of Evaluation
- Continuous & Comprehensive Evaluation: perspective and practice
- Different types of tests, Marking, and grading of scholastic and co-scholastic achievement of children.
- Principles of test construction and characteristics of a good test
- Question Bank, Blue Print, and Item Analysis

(d) Concept of Inclusive education and understanding children with special needs
3question

- Features, characteristics, and Educational Provision for:
- Gifted children, Slow Learners, physically challenged and children with Learning Disabilities
- Concept and Strategies for Inclusive Education

II-Language I (English)

30 Questions

(a) Language Comprehension

15 Questions

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

(b) Pedagogy of Language Development

15 Questions

- Principles aims, and objectives of English language teaching
- Approaches, Methods, and techniques of teaching English
- Learning and acquisition of English language skills: Pronunciations, Stress, and Modulation
- Role of listening and speaking: function of language and how children use it as a tool
- Communicative and writing skills in English
- Role of grammar in learning the English language for communicating ideas verbally and in written form
- Challenges of teaching the English language: Prose, Poetry, Composition, Letter Writing, creative writing, etc.
- Evaluating English language comprehension and proficiency: speaking, listening, reading, and writing
- Teaching-learning materials: Textbook, multi-media materials, multilingual resources of the classroom
- Diagnostics Test and Remedial Teaching

III. Language – II Marathi/Konkani

30 Questions

(a) Comprehension

15 Questions

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

(b) Pedagogy of Language Development

15 Questions

- Principles, aims, and objectives of language teaching
- Approaches, Methods, and Techniques of Teaching Language
- Learning and acquisition of language skills: Pronunciations, Stress, and Modulation
- Role of listening and speaking: function of language and how children use it as a tool
- Communicative and the Writing skills
- Role of grammar in learning a language for communicating ideas verbally and in written form
- Challenges of teaching language: Prose, Poetry, Composition, letter writing, creative writing, etc.
- Evaluating language comprehension and proficiency: speaking, listening, reading, and writing
- Teaching-learning materials: Textbook, multi-media materials, multilingual resources of the classroom
- Diagnostic Test and Remedial Teaching

IV. Mathematics

30 Questions

(a) Content

15 Questions

- Geometry
- Shapes & Spatial Understanding
- Solids around Us
- Numbers
- Addition and Subtraction
- Multiplication
- Division
- Measurement
- Weight
- Time
- Volume
- Data Handling
- Patterns
- Money

(b) Pedagogical issues

15 Questions

- Aims and objectives of teaching Mathematics
- Place of Mathematics in School Curriculum
- Methods of teaching Mathematics: inductive, deductive, analytic, synthetic, heuristic
- Approaches and techniques involved in the teaching of Mathematics
- Competency-based mode of instruction in Mathematics (class-I-IV)
- Concept Attainment Model of instructions in Mathematics
- Challenges of Teaching Mathematics
- Teaching-learning materials: Textbook, Mathematical Kit, Models, other aids
- Evaluation through formal and informal methods
- Error analysis and related aspects of learning and teaching
- Diagnostic Test and Remedial Teaching

V. Environmental Studies

30 Questions

(a) Content

15 Questions

- Family and Friends:
- Relationships
- Work and Play

- Animals
- Plants
- Food Shelter
- Water
- Travel
- Things We Make and Do

(b) Pedagogical Issues

15 Questions

- Meaning, scope, and purpose of EVS
- Significance of EVS as an integrated area of study at the primary level
- Environmental Studies concerning Science & Social Studies
- Methods of teaching EVS: Observation Method, Project Method, Role Play, Storytelling, Environmental Games, Exhibition, etc.
- Approaches to teaching EVS: Activity-based, Exploration, Discovery, Experimentation/ Practical Work, Reporting
- Teaching-learning materials: Textbook, computer-aided Learning, Models, other locally relevant resources, etc.
- Evaluation of learning objectives of EVS: Achievement test, Environmental Awareness test, assessment of attitude towards Environment, Interest, etc.
- Diagnostic Test and Remedial Teaching in EVS

B. Paper II: Elementary Stage (for classes VI to VIII)

1. Child Development and Pedagogy

30 Questions

(a) Child Development (Elementary School)

10 Questions

- Meaning and Nature and Scope of Educational Psychology
- Concept and Principles of Growth and Development and its relationship with learning
- Characteristics of growth and development of children (Physical, Emotional, Social)
- Causes of Individual differences: Heredity & Environment,
- Social and Emotional Development, Piaget's stages of cognitive development
- Concepts of child-centered and progressive education
- Concept and types of Intelligence, Multiple Intelligence, Emotional Intelligence
- Measurement of Intelligence
- Concept of Personality, Development of Personality in Childhood
- Adjustment and Mental Health at home and school
- Self-concept, attitude, interest, values
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(b) Learning

10 Questions

- How children think and learn
- Concept and nature of Learning, Learning styles
- Laws of Learning
- Theories and principles of Conditioning, Cognitivism, and Constructivism
- Factors Affecting Learning: Concept, Types, Methods
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(c) Curriculum, Pedagogy, and Evaluation

7 Questions

- Concept and Principles of Curriculum
- Bases of Curriculum Development: Models of Curriculum Development
- Types of Curriculum Development
- Factors Affecting Curriculum Transaction
- Concept and Forms of Evaluation
- Continuous & Comprehensive Evaluation: perspective and practice
- Different types of tests: Marking, grading of scholastic and co-scholastic
- Achievement of children.
- Principles of test construction and characteristics of a good test
- Question Bank, Blue Print, and Item Analysis

(d) Concept of Inclusive education and understanding children's special needs

3 Questions

- Features, Characteristics, and Educational Provision for:
- Gifted children, Slow Learners, physically challenged and children with Learning Disabilities
- Concept and Strategies for Inclusive Education

II. Language I (English)

30 Questions

(a) Language Comprehension

15 Questions

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

(b) Pedagogy of Language Development

15 Questions

- Principles aims, and objectives of English language teaching
- Approaches, Methods, and techniques of teaching English
- Learning and acquisition of English language skills: Pronunciations, Stress, and Modulation
- Role of listening and speaking: function language and how children use it as a tool
- Communicative and writing skills in English
- Role of grammar in learning the English language for communicating ideas verbally and in written form
- Challenges of teaching the English language; Prose, Poetry, composition, letter writing, creative writing, etc.
- Evaluating English language comprehension and proficiency: speaking, listening, reading, and writing
- Teaching-learning materials: Textbook, multi-media materials, multilingual resources of the classroom
- Diagnostic Test and Remedial Teaching

III. Language – II: Marathi/Konkani 30Questions

a) Comprehension

15 Questions

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

b) Pedagogy of Language Development

15 Questions

- Principles, aims, and objectives of language teaching
- Approaches, Methods, and techniques of teaching language
- Learning and acquisition of language skills: Pronunciations, Stress, and Modulation
- Role of listening and speaking: function of language and how children use it as a tool
- Communicative and writing skills
- Role of grammar in learning a language: Prose, Poetry, composition, letter writing, creative writing, etc.
- Evaluating language comprehension and proficiency: speaking, listening, reading, and writing
- Teaching-learning materials: Textbook, multi-media materials, multilingual resources of the classroom
- Diagnostic Test and Remedial Teaching

IV. Mathematics and Science

60 Questions

I Mathematics

30 Questions

(a) Content

20 Questions

Number System

- Knowing our Numbers
- Playing with Numbers
- Whole Numbers
- Negative Numbers and Integers
- Fractions

Algebra

- Introduction to Algebra
- Ratio and Proportion

Geometry

- Basic geometrical ideas (2-D)
- Understanding Elementary Shapes (2-D and 3-D)
- Symmetry: (reflection)
- Construction (Using Straight edge Scale, protractor, compasses)

Menstruation

Data handling

(b) Pedagogical issues 10 Questions

- Aims and objectives of teaching Mathematics
- Place of Mathematics in School Curriculum
- Methods of teaching Mathematics: inductive, deductive, analytic, synthetic, heuristic
- Approaches and techniques involved in the teaching of Mathematics
- Competency-based teaching in Mathematics (class-I-IV)
- Concept Attainment Model of Teaching in Mathematics
- Challenges of Teaching Mathematics
- Teaching-learning materials: Textbook, Mathematical Kit, models, other aids
- Evaluation through formal and informal methods
- Error analysis and related aspects of learning and teaching
- Diagnostic Test and Remedial Teaching

II Science

30 Questions

(a) Content

20 Questions

Food

- Sources of food
- Components of food

- Cleaning food

Material

Materials of daily use

The World of the Living

Moving Things People and Ideas

How things work

- Electric Current and Circuits
- Magnets

Natural Phenomena

Natural Resources

(b) Pedagogical issues

10 Questions

- Nature aims, and objectives of teaching Sciences
- Correlation of Science with other subjects in the curriculum
- Methods and Teaching Strategies of Science: Lecture, Demonstration.
- Heuristic, Inductive-deductive, Project, etc.
- Observation/Experiment/Discovery (Methods of Science)
- Teaching Resources: Textbooks, charts, models, specimens, use of mass media, use of ICT
- Science Laboratory, Science Club, Science Exhibition
- Scientific Attitude
- Diagnostic Test and Remedial Teaching

V. Social Studies/ Social Science 60 Questions

(a) Content

40 Questions

History

20 Questions

- When, Where, and How
- The Earliest Societies
- The First Cities
- Early States
- New Ideas
- The First Empire
- Contacts with Distant lands
- Political Developments
- Culture and Science
- New Kings and Kingdom
- Sultans of Delhi
- Architecture
- Creation of an Empire Social Change
- Regional Cultures
- The Establishment of Company Power
- Rural Life and Society
- Colonialism and Tribal Societies
- The Revolt of 1857-58
- Women and reform
- Challenging the Caste System
- The Nationalist Movement
- India After Independence

Geography

10 Questions

- Geography as a social study and as a science
- Planet: Earth in the Solar system
- Globe
- Environment in its totality: natural and human environment Air Water
- Human Environment: Settlement, Transport, and Communication
- Resources: Types- Natural and Human
- Agriculture

Social and Political Life

10 Questions

- Diversity
- Government
- Local Government
- Making a Living Democracy
- State Government
- Understanding media
- Unpacking Gender
- The Constitution
- Parliamentary Government
- The Judiciary
- Social Justice and the Marginalized

Pedagogical issues

20 Questions

- Nature, aims, and objectives of teaching Social Studies (History, Geography, Social and Political Life)
- Correlation of Social Studies with other subjects in the curriculum
- Methods and Teaching Strategies of Social Studies: Lecture, Story Telling, Dramatization, Discussion, Brain Storming, Field trips, project, methods, etc.
- Observation/Excursion/Regional (Method of social studies)
- Teaching Resources: Textbooks, charts, models, News Paper, Historical Lab, Geography room, Museum, Exhibition
- Practical Geography
- Infusion of Local History
- Diagnostic Test and Remedial Teaching