

STRUCTURE AND CONTENT OF SYLLABUS

Paper I (for classes I to V) Primary Stage

I. Child Development and Pedagogy: 30 Questions

**a) Child Development (Primary School Child): 15 Questions**

- Concept of development and its relationship with learning
- Principles of the development of children
- Influence of Heredity & Environment
- Socialization processes: Social world & children (Teacher, Parents, Peers)
- Piaget, Kohlberg and Vygotsky: constructs and critical perspectives
- Concepts of child-centered and progressive education
- Critical perspective of the construct of Intelligence
- Multi Dimensional Intelligence
- Language & Thought
- Gender as a social construct; gender roles, gender-bias and educational practice
- Individual differences among learners, understanding differences based on diversity of language ,caste,gender, community, religion etc.
- Distinction between Assessment for learning and assessment of learning; School-Based Assessment,Continuous & Comprehensive Evaluation: perspective and practice
- Formulating appropriate questions for assessing readiness levels of learners; for enhancing learning and critical thinking in the classroom and for assessing learner achievement.

**b) Concept of Inclusive education and understanding children with special needs: 5Questions**

- Addressing learners from diverse backgrounds including disadvantaged and deprived
- Addressing the needs of children with learning difficulties, 'impairment' etc
- Addressing the Talented, Creative, Specially abled Learners

**c) Learning and Pedagogy: 10 Questions**

- How children think and learn; how and why children 'fail' to achieve success in school performance
- Basic processes of teaching and learning; children's strategies of learning; learning as a social activity; social context of learning.
- Child as a problem solver and a 'scientific investigator'
- Alternative conceptions of learning in children; understanding children's 'errors' as significant steps in the learning process.
- Cognition & Emotions
- Motivation and learning
- Factors contributing to learning- personal & environmental

## II. Language-I (Punjabi): 30 Questions

### a) Language Comprehension: 15 Questions

Reading unseen passages- two passages one prose or drama and one 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

- 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

## III. Language- II (English): 30 Questions

### a) Comprehension: 15 Questions

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

### b) Pedagogy of Language Development: 15 Questions

- 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

## IV Mathematics: 30 Questions

Content 25 Questions

- Geometry
- Shapes & Spatial Understanding
- Numbers
- Addition and Subtraction

- Multiplication
- Division
- Measurement
- Weight
- Time
- Volume
- Data Handling
- Patterns
- Money

LCM & HCF

Decimal

Fractions

**b) Pedagogical issues: 5 Questions**

- Nature of Mathematics/Logical thinking; understanding children's thinking and reasoning patterns and strategies of making meaning and learning
- Place of Mathematics in Curriculum
- Language of Mathematics
- Community Mathematics
- Evaluation through formal and informal methods
- Problems of Teaching
- Error analysis and related aspects of learning and teaching
- Diagnostic and Remedial Teaching

**V Environmental Studies: 30 Questions**

Content: 25 Questions

- Our Surroundings
- Parts of Body (internal & external)
- Natural Resources
- Our Punjab
- Solar System
- Basic needs
- Food, resources and care
- Water
- Air
- Habitats, types
- Clothes, dresses & their care
- Group songs
- Festivals (school, family & national)

- Health, good habits & personal hygiene
- Looking after the trees, plants & animals
- Living and nonliving
- Parts of plants
- Geographical features and changes
- Days and Nights
- Disposal of solid waste
- Local Bodies (Rural & urban)
- Transportation, communication and its development
- Pollution
- National property
- Weather & climate
- Community Buildings
- Diseases
- First Aid
- Disaster management

**b) Pedagogical Issues: 5 Questions**

- Concept and scope of EVS
- Significance of EVS, integrated EVS
- Environmental Studies & Environmental Education
- learning Principles
- Scope & relation to Science & Social Science
- Approaches of presenting concepts
- Activities
- Experimentation/Practical Work
- Discussion
- CCE
- Teaching material/Aids
- Problems

STRUCTURE AND CONTENT OF SYLLABUS

Paper II (for classes VI to VIII) Elementary Stage

I. Child Development and Pedagogy: 30 Questions

a) Child Development (Elementary School Child): 15 Questions

- Concept of development and its relationship with learning
- Principles of the development of children
- Influence of Heredity & Environment
- Socialization processes: Social world & children (Teacher, Parents, Peers)
- Piaget, Kohlberg and Vygotsky: constructs and critical perspectives
- Concepts of child-centered and progressive education
- Critical perspective of the construct of Intelligence
- Multi Dimensional Intelligence
- Language & Thought
- Gender as a social construct; gender roles, gender-bias and educational practice
- Individual differences among learners, understanding differences based on diversity of language, caste, gender, community, religion etc.
- Distinction between Assessment for learning and assessment of learning; School- Based Assessment, Continuous & Comprehensive Evaluation: perspective and practice
- Formulating appropriate questions for assessing readiness levels of learners; for enhancing learning and critical thinking in the classroom and for assessing learner achievement.

b) Concept of Inclusive education and understanding children with special needs: 5 Questions

- Addressing learners from diverse backgrounds including disadvantaged and deprived
- Addressing the needs of children with learning difficulties, 'impairment' etc
- Addressing the Talented, Creative, Specially abled Learners

c) Learning and Pedagogy: 10 Questions

- How children think and learn; how and why children 'fail' to achieve success in school performance
- Basic processes of teaching and learning; children's strategies of learning; learning as a social activity; social context of learning.
- Child as a problem solver and a 'scientific investigator'
- Alternative conceptions of learning in children; understanding children's 'errors' as significant steps in the learning process.
- Cognition & Emotions
- Motivation and learning

- Factors contributing to learning- personal & environmental

## II. Language-I (Punjabi): 30 Questions

### a) Language Comprehension: 15 Questions

Reading unseen passages- two passages one prose or drama and one 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

- 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

## III. Language- II (English): 30 Questions

### a) Comprehension: 15 Questions

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

### b) Pedagogy of Language Development: 15 Questions

- 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

## IV. (a) Mathematics and Science: 60 Questions

### (i) Mathematics: 30 Questions

- Content: 25 Questions
- Number System

Knowing our Numbers

Playing with Numbers

Whole Numbers

Negative Numbers and Integers

Fractions

Exponents; surds, squares, cube, square root, cube root

Profit & Loss

Compound Interest

Discount

Algebra

Introduction to Algebra; Algebraic identities, polynomials

Ratio and Proportion

Geometry

Basic geometrical ideas (2-D)

Understanding Elementary Shapes (2-D and 3-D)

Symmetry: (reflection)

Constructions (using Straight edge Scale, protractor, compasses)

- Quadrilateral

Mensurations; circle, sphere, cone, cylinder, triangles

Data handling, statistics

**b) Pedagogical issues: 5 Questions**

- Nature of Mathematics/Logical thinking
- Place of Mathematics in Curriculum
- Language of Mathematics
- Community Mathematics
- Evaluation
- Remedial Teaching
- Problems of Teaching

**(ii) Science: 30 Questions**

**a) Content: 25 Questions**

Food

- Sources of food
- Components of food
- Cleaning food
- Materials
- Materials of daily use
- Air

- Water
- Change of matter
- Structure of Atom
- Molecule
- Compounds
- Metals & Nonmetals
- Carbon
- Soil
- Acids, base, salt
- The World of the Living organisms, micro organism and diseases
- Food; production & management
- Moving Things People and Ideas
- Effect of population growth & human activities on environment
- The Universe
- Force
- Motion
- Work & Energy
- Electric current and circuits
- Magnets & magnetism
- Light
- Sound
- Natural Phenomena
- Natural Resources
- Sources of energy
- Environmental concerns; regional & national
- Pollution

**b) Pedagogical issues: 5 Questions**

- Nature & Structure of Sciences
- Natural Science/Aims & objectives
- Understanding & Appreciating Science
- Approaches/Integrated Approach
- Observation/Experiment/Discovery(Method of Science)
- Innovation
- Text Material/Aids
- Evaluation- cognitive/psychomotor/affective

- Problems
- Remedial Teaching

#### **V. Social Studies/ Social Sciences: 60 Questions**

a) Content: 50 Questions

##### **(i) History: 20 Questions**

- When, Where and How
- The Earliest Societies
- The First Farmers and Herders
- The First Cities
- Early States
- New Ideas
- The First Empire
- Contacts with Distant lands
- Political Developments
- Culture and Science
- New Kings and Kingdoms
- 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

##### **(ii) Geography: 15 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

**(iii) Social and Political Life (Civics): 15 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 Marginalised

**c) Pedagogical issues: 10 Questions**

- Concept & Nature of Social Science/Social Studies
- Class Room Processes, activities and discourse
- Developing Critical thinking
- Enquiry/Empirical Evidence
- Problems of teaching Social Science/Social Studies
- Sources - Primary & secondary
- Projects Work
- Evaluation