CHILD DEVELOPMENT AND PEDAGOGY (Marks: 30)

1. DEVELOPMENT OF CHILD
   - Development, Growth & Maturation - Concept & Nature
   - Principles of Development & their educational implications
   - Factors influencing Development - Biological, Psychological, Sociological
   - Understanding Development - Piaget, Kohlberg, Chomsky, Carl Rogers and Erikson
   - Individual differences - Intra & Inter Individual differences in the areas of Attitudes, Aptitude, Interest, Habits, Thinking (Divergent & Convergent), Intelligence and their Assessment
   - Development of Personality - Concept, Factors effecting development of Personality, Child Rearing Practices, Self-Concept
   - Adjustment, Behavioral problems, Defense Mechanisms, Mental Health
   - Methods and Approaches of Child Development – Introspection, Observation, Interview, Case study, Experimental, Rating Scales, Anecdotal Records, Questionnaire, Cross sectional and Longitudinal
   - Developmental tasks and Hazards

2. UNDERSTANDING LEARNING
   - Concept, Nature of Learning - Input - Process - Outcome
   - Factors of Learning - Personal and Environmental
   - Approaches to Learning and their applicability - Behaviorism (Skinner, Pavlov, Thorndike), Constructivism (Piaget, Vygotsky), Gestalt (Kohler, Koffka) and Observational (Bandura)
   - Dimensions of Learning - Cognitive, Affective and Performance
   - Motivation and Sustenance - its role in learning.
   - Memory & Forgetting
   - Transfer of Learning

3. PEDAGOGICAL CONCERNS
   - Teaching and its relationship with learning and learner
   - Learners in Contexts: Situating learner in the socio-political and cultural context
   - Children from diverse contexts - Children With Special Needs (CWSN), Inclusive Education
   - Understanding of Pedagogic methods - Enquiry based learning, Project based learning, Survey, Observation and Activity based learning, Co-operative & Collaborative learning
   - Individual and Group learning: Issues and concerns with respect to organizing learning in class room like Study habits, Self learning and Learning to learn skills
   - Organizing learning in heterogeneous class room groups - Socio-economic background, Abilities and Interest
   - Paradigms of organizing Learning - Teacher centric, Subject centric and Learner centric
   - Theory of Instruction - Bruner
   - Teaching as Planned activity - Elements of Planning
   - Phases of Teaching - Pre active, Interactive and Post active
   - General and Subject related skills, competencies required in teaching and attributes of good facilitator
   - Learning resources - Self, Home, School, Play, Community, Technology
   - Distinction between Assessment for Learning & Assessment of Learning, School based Assessment, Continuous & Comprehensive Evaluation: Perspective & Practice
II Language – I BENGALI (Marks – 30)

Bengali

Total Marks: 30

(A) **Content (অনুষ্ঠান)** :-

Mark s: 24

I. **Comprehension**

1. অন্শিক্ত প্রশ্ন
2. অপমৃত্তিক প্রশ্ন

II. **বর্ধন, ভাষা, লেখনালয় (লেখক), লেখনালয়**

III. **কলামক্রম, সকলক্রম ও দিকার্তিক কর্মক্রমে**

- বাক্য – বাক্যের ভূমিকা, কলামক্রম, কলামক্রম, ভাবগত, ভাব এবং প্রয়োগ, বাক্যের ক্রমনিষ্ঠা লিখন, ঘটনা ক্রমনিষ্ঠা লিখন
- বর্ণমালা, শব্দসংখ্যা, শব্দ, লিখন, ভাবক, কলাম, হারামেটিকা, সাহিত্য, সাহিত্য, বিশ্লেষণ সাহিত্য, সাহিত্য শব্দ, বিশ্লেষণ শব্দ, বাক্যের লেখকের

IV. **বর্ণমালা, শব্দের দৃষ্টি, শব্দ, লিখন, ভাবক, কলাম, বিশ্লেষণ লিখন, সাহিত্য, সাহিত্য, বিশ্লেষণ শব্দ, সাহিত্য শব্দ, বিশ্লেষণ শব্দ, বাক্যের লেখকের

(B) **Methodology (ভাষা শিক্ষানুর বিধি)** :-

Mark s: 6

1. **ভাষার বর্ধন – ভাষার প্রকৃতি** :-
- বর্ধন – পরিভাষা, ধর্ম-বিজ্ঞান, শব্দ-বিজ্ঞান, বিভিন্ন তত্ত্ব বাংলা শিক্ষায় লক্ষ্য ও উদ্দেশ্য
- ভাষা – কৌশলের বিকাশ
- শৈশব, কলা, পড়া, লেখা (LSRW)

2. **বাংলা শিক্ষক ও শিক্ষন-বিধি** :-
- শিক্ষার উদ্দেশ্য ও উদ্দেশ্যের বিশেষতা, ভাষা শিক্ষায় সামান্য গতিশীলতা, ভাষা শিক্ষায় প্রশাসক, প্রশাসক, মন্ত্রণালয়ের শিক্ষা প্রশাসন, নিজের মন্ত্রণালয়, ডাক্তার প্রশাসন, কার্য, সরকারী, আইন, নিয়ম, বিষ, নিয়ম, সরকারী, নিয়ম

3. **পাঠক্রম ও সহায়তা কর্মক্রম** :-
- পাঠক্রম, পাঠপুস্তক, পুস্তকালয়, দৃষ্টি, শিক্ষা উক্তি (শিক্ষার উপকরণ), ভাষার সুরুতে উপমোচন সহায়তার কর্মক্রম

4. **শিক্ষন ও বোঝার সহায়তা** :-
- আধুনিক শিক্ষন, উপযোগিতা
একক যোজনা, পাঠ্য যোজনা

6. মূল্যায়ন:-
মূল্যায়নের ধারণা, নির্দিষ্ট সমগ্র মূল্যায়ন, উত্তম পরীক্ষার বিশেষতা, প্রশ্ন পত্রের নির্মান, উপলব্ধি পরিকা অভিলেখ
III. LANGUAGE - II (ENGLISH) (Marks: 30)

CONTENT (Marks: 24)

5. Degrees of Comparison 6. Direct and Indirect Speech 7. Questions and question tags,  
Sentences, 15. Sequencing of the Sentences in the given paragraph 16. Error  
identification within a sentence.

PEDAGOGY (Marks: 06)

1. Aspects of English:- (a) English language - History, nature, importance, principles of  
   English as second language (b) Problems of teaching / learning English  
2. Objectives of teaching English.  
3. Phonetics  
4. Development of Language skills:- (a) Listening, Speaking, Reading & Writing (LSRW).  
   (b) Communicative skills.  
5. Approaches, Methods, Techniques of teaching English.  
   (a) Introduction, Definition and Types of approaches methods and techniques of  
   teaching English (b) Remedial teaching.  
6. Teaching of structures and vocabulary items.  
7. Teaching learning materials in English  
8. Lesson Planning  
9. Curriculum & Textbooks  
10. Evaluation in English language Teaching - CCE

IV. MATHEMATICS (Marks: 30)

CONTENT (Marks: 24)

1. **Number System:**  
   Natural Numbers, Whole Numbers, Integers, Rational Numbers & their fundamental  
   operations (addition, subtraction, multiplication and division). Primes Composite  
   Numbers, Co-Primes, Twin Primes, Relationship between LCM & GCD, Indian  
   currency, Representation of Natural, Whole, integers and rational numbers on a  
   number line. Terminating and Non-terminating decimals, Non-terminating but  
   recurring decimals, square, square root, cube, cube roots of numbers, Pythagorean  
   triplets. Applications on number system

2. **Fractions:**  
   Concept of Fractions, Proper Fractions, Improper Fractions, Mixed Fractions,  
   Decimal Fractions, Comparison, Fundamental operations on fractions (addition,  
   subtraction, multiplication and division), Representation of a fraction in pictorial form  
   and on a number line, reciprocal of fraction, uses of fractions in daily life

3. **Arithmetic:**  
   Unitary method, percentages, profit and loss, ratio and proportion, direct proportion,  
   discount, simple interest, compound interest, time and work, time and distance, tax  
   (Vat).
4. **Geometry:**
Basic idea of geometry (2D & 3D shapes), types of angles, construction and measurement of angles, types of angles, lines, triangles, types of triangles, quadrilaterals, types of quadrilaterals, congruence, property of congruencies of triangles (SAS, SSS, ASA, RHS), construction of triangles and quadrilaterals, patterns with geometrical shapes, representing 3D Shapes into 2D Shapes, Euler's relation, Properties of triangles, parallelogram, trapezium, Rhombus, Rectangle, Square and Kite, Concept of Circles, Symmetry.

5. **Measurements:**
Length, Weight, Capacity, Time and their Standard Units, Surface Area and volume of a cube and a cuboids, perimeter and area of triangle, quadrilateral, parallelogram, rectangle, Rhombus, Square and Trapezium. Circumference of a circle, Area of Circle, Circular paths, other polygons and sector in a circle.

6. **Data Applications:**
Introduction to Data, Data Presentation, Preparation of Frequency distribution table, Bar Graph, Pictograph, Histogram, Mean, Median and Mode of ungrouped data, determination of Mean by deviation method, Cumulative Frequency Distribution Table, Frequency Polygon, Frequency Curve and Cumulative Frequency Curves.

7. **Algebra:**
Introduction to Algebra, Simple equations, solving linear equation in one variable, exponents and powers, Algebraic expressions, Addition, Subtraction, Multiplication, Division and Factorisation of algebraic expressions, algebraic identities.

**PEDAGOGY (Marks: 06)**
1. Definitions and Nature of Mathematics
2. Aims, values , instructional objectives of teaching Mathematics and Academic Standards
3. Methods of Teaching Mathematics
4. Instructional material in Mathematics - TLM in Mathematics
5. Instructional Planning
6. Continuous Comprehensive Evaluation (CCE) – Formative Assessment, Summative Assessment – Processes and procedures
7. Designing, Administration, Analysis of scholastic Achievement test (SAT)
8. Diagnostic and Remedial Teaching
9. The Mathematics Teacher
10. Resource Utilization
11. Curriculum and Text Book
V. ENVIRONMENTAL STUDIES (Marks: 30)

CONTENT (Marks: 24)

1. **My Family** - My Family - Family tree, migration, changing structures of family - nuclear and joint families, festivals.
2. **Work & Play** - Occupations, Child labor, Games - Local, National and International, Marshal Arts, Effects of games on respiration and breathing, fairs, Circus.
3. **Plants and Animals** - Plants & animals in our surroundings, Plant & Animal products, parts of a plant, photosynthesis, parts of a flower, pollination, fertilization, fruits, seeds. Wild & cultivated plants, wild & domestic animals their food, arrangement of teeth in animals.
4. **Our Food** - Different types of food, storage of grains and vegetables, storage of food, Food - animal husbandry, Nutrients of food, deficiency diseases.
5. **Shelter** - Need, different types of houses, electrical appliances - their use, social life in ants and honey bees, Animals shelter - variation.
6. **Air** - Importance of air, composition of air, atmospheric pressure, diseases spread through air and their prevention, air pollution - causes, its impact, and measures to prevent, Green House effect.
8. **Water** - Importance, water resources, tanks, aquatic flora and fauna, measurement of liquids, Water pollution - causes, impact, measures to prevent, purification of water, drought, floods.
9. **Our Body - Health - Cleanliness** - External, Internal parts of our body, Bones, Muscles, Sense organs, Digestion, Respiration, Nervous system, Excretory system, Circulatory system, First Aid.
10. **Mapping** - Direction, Mandal, District, State, India
11. **History and culture of India** - Evolution of Man, Pre-historic period, Indian culture and Heritage, Civilization, Medieval period culture, Ancient monuments, Religious movements: Jainism, Buddhism, Bhakti movement, Great personalities, Indian freedom movement, Modern India.
12. **Our country (India)** - Location, Area, Physical features, Climate, Natural resources, Continents and Oceans, Historical places in India, Population.
14. **Indian constitution** – Preamble, Major concepts, Fundamental rights, Fundamental duties, Child Rights
15. **Security** – Earth Quakes, Floods, Fire, First Aid, 108, 104 Vehicles

PEDAGOGY (Marks: 06)

1. Concept and scope of Environmental Studies (Science & Social Studies)
2. Aims & Objectives of teaching Environmental Studies (Science & Social Studies) Academic Standards of Teaching EVS
3. Relation to Science and Social Studies
4. Curriculum and its transaction
5. Learning Environment
6. CCE