1. General Intelligence & Reasoning

- **Verbal**: Analogies, similarities and differences, space visualization, problem-solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship concepts, arithmetical reasoning, and figural classification.

- **Non-Verbal**: Non-verbal series, coding and decoding, and other analytical functions.

2. General Knowledge & General Awareness

- **Current Events**: National and international importance.

- **General Science**: Physics, Chemistry, Biology.

- **History**: Ancient, Medieval, Modern India.

- **Geography**: India and the world.

- **Economy**: Basic economic concepts.

- **Polity**: Indian Constitution, Political System.

- **Environment**: Ecology, Biodiversity, Climate Change.

3. Quantitative Aptitude

- **Number System**: Whole numbers, decimals, fractions.

- **Arithmetic**: Percentage, ratio and proportion, profit and loss, time and work, time and distance, simple and compound interest.

- **Algebra**: Basic algebraic identities, equations.

- **Geometry**: Lines, angles, triangles, circles, polygons.

- **Mensuration**: Areas and volumes.

- **Data Interpretation**: Tables, bar charts, pie charts.

4. English Comprehension

- **Grammar**: Error detection, fill in the blanks, sentence correction.

- **Vocabulary**: Synonyms, antonyms, one-word substitution.

- **Comprehension**: Reading passages with questions.

- **Sentence Structure**: Sentence formation and correction.

Paper 2

English Language & Comprehension

- **Grammar**: Error detection, fill in the blanks, sentence correction.

- **Vocabulary**: Synonyms, antonyms, one-word substitution.

- **Comprehension**: Reading passages with questions.

- **Sentence Structure**: Sentence formation and correction.

- **Idioms & Phrases**: Commonly used idioms and phrases.

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Indicative syllabus for Computer Based Examination:
Paper-I: 12.8.1.1 General Intelligence and Reasoning:

It would include questions of both verbal and non-verbal type. This component may include questions on analogies, similarities and differences, space visualization, spatial orientation, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship concepts, arithmetical reasoning and figural classification, arithmetic number series, non-verbal series, coding and decoding, statement conclusion, syllogistic reasoning etc.

The topics are, Semantic Analogy, Symbolic/Number Analogy, Figural Analogy, Semantic Classification, Symbolic/ Number Classification, Figural Classification, Semantic Series, Number Series, Figural Series, Problem Solving, Word Building, Coding & de-coding, Numerical Operations, symbolic Operations, Trends, Space Orientation, Space Visualization, Venn Diagrams, Drawing inferences, Punched hole/ pattern-folding & un-folding, Figural Pattern- folding and completion, Indexing, Address matching, Date & city matching Classification of centre codes/ roll numbers, Small & Capital letters/ numbers coding, decoding and classification, Embedded Figures, Critical thinking, Emotional Intelligence, Social Intelligence, etc.

General Knowledge and General Awareness:
Questions in this component will be aimed at testing the candidates' general awareness of the environment around him and its application to society. Questions will also be designed to test knowledge of current events and of such matters of every day observations and experience in their scientific aspect as may be expected of any educated person. The test will also include questions relating to India and its neighboring countries especially pertaining to History, Culture, Geography, Economic Scene, General Polity, Indian Constitution, Scientific Research, etc.

Quantitative Aptitude:
The questions will be designed to test the ability of appropriate use of numbers and number sense of the candidate. The scope of the Page 17 of 67 test will be computation of whole numbers, decimals, fractions and relationships between numbers, Percentage, Ratio and Proportion, Square roots, Averages, Interest, Profit & Loss, Discount, Partnership Business, Mixture and Alligation,

Time and distance, Time & work, Basic algebraic identities of School Algebra and Elementary surds, Graphs of Linear Equations, Triangle and its various kinds of centres, Congruence and similarity of triangles, Circle and its chords, tangents, angles subtended by chords of a circle, common tangents to two or more circles, Triangle, Quadrilaterals, Regular Polygons, Circle, Right Prism, Right Circular Cone, Right Circular Cylinder, Sphere, Hemispheres, Rectangular Parallelepiped, Regular Right Pyramid with triangular or square base, Trigonometric ratio, Degree and Radian Measures, Standard Identities, Complementary angles, Heights and Distances, Histogram, Frequency polygon, Bar diagram & Pie chart. 12.8.1.4 English Comprehension: Candidates' ability to understand correct English, his/ her basic comprehension and writing ability, etc. would be tested.

Paper-II: 12.8.2.1 English Language and Comprehension:

The paper will be divided in four parts and there will be a sectional timer of 30 Minutes for each part. Questions in these components will be designed to test the candidate's understanding and knowledge of English Language and will be based on error recognition, filling in the blanks (using verbs, preposition, articles, etc.), Vocabulary, Spellings, Grammar, Sentence Structure, Synonyms, Antonyms, Sentence Completion, Phrases and Idiomatic use of words, comprehension, etc.

Paper-II: 12.8.2.1 English Language and Comprehension: