

Staff Selection Commission Northern Region Syllabus

Matriculation level Syllabus

General Intelligence

- Visual Memory
- Discriminating Observation
- Problem-Solving
- Analysis
- Similarities and Differences
- Space Visualization
- Judgment
- Decision Making
- Figure Classification
- Arithmetical Number Series
- Relationship Concepts
- Non-Verbal Series etc.
- The test will also include questions designed to test the candidate's abilities to deal with abstract ideas and
- Symbols and their Relationship
- Arithmetical Computation and
- Other Analytical Functions.

Quantitative Aptitude

- Decimals and Fractions and relationship between Numbers
- Fundamental Arithmetical Operations
- Percentages
- Interest
- Profit and Loss
- Number Systems
- Computation of Whole Numbers
- Ratio and Proportion
- Averages
- Mensuration
- Time and Distance
- Ratio and Time
- Discount
- Use of Tables and Graphs
- Time and Work, etc.

English Language

- Basics of English Language
- Sentence Structure
- Synonyms
- Its Vocabulary
- Grammar
- Antonyms and its Correct Usage, etc.

General Awareness

Questions will be designed to test the ability of the candidate's 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 everyday observation and experience in their scientific aspects as may be expected of an educated person. The test will also include questions relating to India and its neighboring countries especially pertaining to Sports, History, Culture, Geography, Economic scene, General Polity including Indian Constitution, and Scientific Research etc. These questions will be such that they do not require a special study of any discipline.

10+2 (Higher Secondary) level

General Intelligence

- Space Orientation
- Semantic Classification
- Venn Diagrams
- Symbolic operations
- Symbolic/ Number Analogy
- Trends
- Verbal and Non-Verbal Type
- The test will include questions on Semantic Analogy
- Figural Analogy
- Punched Hole/ Pattern Folding & Unfolding
- Semantic Series
- Figural Pattern – Folding and Completion
- Symbolic/ Number Classification
- Drawing inferences
- Figural Classification
- Critical Thinking

- Problem Solving
- Emotional Intelligence
- Number Series
- Embedded Figures
- Figural Series
- Coding and Decoding
- Other Sub-Topics
- Word Building
- Social Intelligence
- if any Numerical operations.

English Language

- Synonyms/ Homonyms
- Antonyms
- Spellings/ Detecting Mis-spelt Words
- Idioms & Phrases
- Improvement of Sentences
- Active/ Passive Voice of Verbs
- Spot the Error
- Fill in the Blanks
- One word substitution
- Shuffling of Sentences in a Passage
- Cloze Passage
- Conversion into Direct/ Indirect Narration
- Shuffling of Sentence Parts
- Comprehension Passage.

Quantitative Aptitude: Arithmetic

- Number Systems: Computation of the Whole Number
- Decimal and Fractions
- Relationship between numbers Fundamental arithmetical operations: Percentages
- Ratio and Proportion
- Square roots
- Averages
- Interest (Simple and Compound)
- Profit and Loss
- Discount
- Partnership Business
- Mixture and Allegation
- Time and distance
- Time and work.

- Algebra: Basic algebraic identities of School Algebra and Elementary surds (simple problems) and Graphs of
- Linear Equations.
- Geometry: Familiarity with elementary geometric figures and facts: Triangle and its various kinds of centers
- Congruence and similarity of triangles
- Circle and its chords
- tangents
- angles subtended by chords of a circle
- common tangents to two or more circles.
- Mensuration: 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 Trigonometry: Trigonometry
- Trigonometric ratios
- Complementary angles
- Height and distance (simple problems only) Standard Identities like $\sin^2\theta + \cos^2\theta = 1$ etc., Statistical Charts: Use of Tables and Graphs: Histogram, Frequency polygon, Bar-diagram, Pie-chart.

General Awareness

Questions are designed to test the candidate's general awareness of the environment around him and its application to society. Questions are also designed to test knowledge of current events and of such matters of everyday observation and experience in their scientific aspect as may be expected of an educated person. The test will also include questions relating to India and its neighboring countries especially 10 pertaining to History, Culture, Geography, Economic Scene, General policy, and scientific research. For VH candidates of 40% and above visual disability and opting for SCRIBES there will be no component of Maps/Graphs /Diagrams/ Statistical Data in the General Intelligence & Reasoning / Quantitative Aptitude.

Graduation and above levels

General Intelligence

- Verbal and Non-Verbal Type
- 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 & decoding
- Numerical Operations
- symbolic Operations
- Trends
- Space Orientation
- Space Visualization
- Venn Diagrams
- Drawing inferences
- Punched hole/ pattern – folding & unfolding
- Figural Pattern – folding and completion
- Indexing
- Address matching
- Date & city matching
- Classification of center codes/ roll numbers
- Small & Capital letters/ numbers coding

- decoding and classification
- Embedded Figures
- Critical thinking
- Emotional Intelligence
- Social Intelligence
- Other sub-topics, if any.

English Language

Candidates' ability to understand correct English, his basic comprehension, and writing ability, etc. would be tested. The questions in Parts A, B, & D will be of a level commensurate with the essential qualification viz. Graduation and questions in Part C will be of the 10th standard level.

Quantitative Aptitude

- whole numbers
- decimals
- fractions and relationships between numbers, Percentage
- Ratio & Proportion
- Square roots
- Averages
- Interest
- Profit and Loss
- Discount
- Partnership Business
- Mixture and Allegation
- Time and distance
- Time & Work
- Basic algebraic identities of School Algebra & Elementary surds
- Graphs of Linear Equations
- Triangle and its various kinds of centers
- 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.

General Awareness

Questions in this component will be aimed at testing the candidate's 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 everyday 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 Policy & Scientific Research.