

(A) SCHEME OF THE COMMON SCREENING TEST (CST) AND SYLLABUS

The CST will consist of **one objective type** paper as shown below :

| Date of Exam | Part | Subject | Maximum Marks | Total Duration /Timing | Total Duration/Timing for Visually Handicapped candidates including compensatory time. |
|------------------------|------|---|---------------|--|--|
| 12.07.2014 (Sunday) | I | General Intelligence (50 questions) | 50 | 2 Hours 10.00 A.M. to 12.00 Noon | 2 Hours 40 mins 10.00 A.M. to 12.40 PM |
| | II | English Language (Basic Knowledge) (50 questions) | 50 | | |
| | III | Quantitative Aptitude (Basic Arithmetic Skill) (50 questions) | 50 | | |
| | IV | General Awareness (50 questions) | 50 | | |

NOTE-I : The Paper will consist of **Objective Type- Multiple choice questions** only. The questions will be set **both in English & Hindi for Part-I, III & IV.**

NOTE-II: There will be **negative marking of 0.25 marks for each wrong answer.** Candidates are, therefore, advised to keep this in mind while answering the questions.

SYLLABUS

General Intelligence:

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| 1. | Semantic Analogy | 14. | Symbolic operations |
| 2. | Symbolic/Number Analogy | 15. | Trends |
| 3. | Figural Analogy | 16. | Space Orientation |
| 4. | Semantic Classification | 17. | Venn Diagrams |
| 5. | Symbolic/Number Classification | 18. | Drawing inferences |
| 6. | Figural Classification | 19. | Punched hole/pattern-folding & unfolding |
| 7. | Semantic Series | 20. | Figural Pattern – folding and completion |
| 8. | Number Series | 21. | Embedded figures |
| 9. | Figural Series | 22. | Critical Thinking |
| 10. | Problem Solving | 23. | Emotional Intelligence |
| 11. | Word Building | 24. | Social Intelligence |
| 12. | Coding and de-coding | 25. | Other sub-topics, if any |
| 13. | Numerical operations | | |

English Language :

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| 1. | Spot the Error |
| 2. | Fill in the Blanks |
| 3. | Synonyms/Homonyms |
| 4. | Antonyms |
| 5. | Spellings/Detecting Mis-spelt words |
| 6. | Idioms & Phrases |
| 7. | One word substitution |
| 8. | Improvement of Sentences |
| 9. | Active/Passive Voice of Verbs |
| 10. | Conversion into Direct/Indirect narration |

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| 11. | Shuffling of Sentence parts |
| 12. | Shuffling of Sentences in a passage |
| 13. | Cloze Passage |
| 14. | Comprehension Passage |

Quantitative Aptitude:

ARITHMETIC

- C.1.1 Number Systems:
 Computation of Whole Number
 Decimal and Fractions
 Relationship between numbers
- C.1.2 Fundamental arithmetical operations:
 Percentages
 Ratio and Proportion
 Square roots
 Averages
 Interest (Simple and Compound)
 Profit and Loss
 Discount
 Partnership Business
 Mixture and Alligation
 Time and distance
 Time and work

ALGEBRA:

- C.2.1 Basic algebraic identities of School Algebra (and their simple applications) e.g. Formulas for $(a+b)^2$, $(a-b)^2$, $(a+b)^3$, $(a-b)^3$, a^3-b^3 , a^3+b^3 , a^2-b^2 ; if $a+b+c=0$, then $a^3+b^3+c^3=3abc$ etc. and Elementary surds (simple problems)
- C.2.2 Graphs of Linear Equations.

GEOMETRY:

Familiarity with elementary geometric figures and facts:

- C.3.1 Triangle and its various kinds of centres viz. Centroid, In-centre, Orthocenter, Circumcentre
- C.3.2 Congruence and similarity of triangles
- C.3.3 Circle and its chords, tangents, angles subtended by chords of a circle, common tangents to two or more circles.

MENSURATION:

- C.4.1 Triangle, Quadrilaterals
- C.4.2 Regular Polygons (sum of the internal angles of a polygon)
- C.4.3 Circle
- C.4.4 Right Prism
- C.4.5 Right Circular Cone
- C.4.6 Right Circular Cylinder
- C.4.7 Sphere, Hemispheres
- C.4.8 Rectangular Parallelepiped
- C.4.9 Regular Right Pyramid with triangular or square Base

TRIGONOMETRY:

C.5.1 Trigonometry (for acute angles θ with $0 \leq \theta \leq 90$)

Trigonometric ratios

Degree and Radian Measures

Standard Identities like $\sin^2 \theta + \cos^2 \theta = 1$ etc.

C.5.2 Complementary Angles, Heights and Distances (simple problems only)

STATISTICAL CHARTS :

Use of Tables and Graphs:

C.6.1 Histogram

C.6.2 Frequency polygon

C.6.3 Bar-diagram

C.6.4 Pie-chart

General Awareness:

Questions are designed to test the candidates 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 neighbouring countries especially pertaining to History, Culture Geography, Economic Scene, General policy and scientific research.