

# SSC CHSL – SYLLABUS

## Syllabus for Paper – I

### Quantitative Aptitude:

#### Number Systems:

Computation of 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 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), Graphs of Linear Equations.

#### Geometry

Familiarity with elementary geometric figures and facts, Triangle and its various kinds of centres viz. Centroid, In-centre, Orthocenter, Circumcentre, 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 (sum of the internal angles of a polygon), Circle, Right Prism, Right Circular Cone, Right Circular Cylinder, Sphere, Hemispheres, Rectangular Parallelepiped, Regular Right Pyramid with triangular or square Base

## **TRIGONOMETRY:**

Trigonometry (for acute angles  $\theta$  with  $0 \leq \theta \leq 90$ ) 12 Trigonometric ratios Degree and Radian Measures Standard Identities like  $\sin^2 \theta + \cos^2 \theta = 1$  etc. , Complementary Angles, Heights and Distances (simple problems only)

**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 neighbouring countries especially pertaining to History, Culture Geography, Economic Scene, General policy and scientific research.

## General English

<b>Serial No</b>	<b>Topics</b>
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 Verb
10	Conversion into Direct/Indirect narration
11	Shuffling of Sentence parts
12	Shuffling of Sentences in a passage
13	Cloze Passage
14	Comprehension Passage