

# AP ICET 2025 Syllabus

## Section-A: Analytical Ability

**1. Data Sufficiency:** A question is given followed by data in the form of two statements labeled as (i) and (ii). If the data given in (i) alone is sufficient to answer the question then choice (1) is the correct answer. If the data given in (ii) alone is sufficient to answer the question then choice (2) is the correct answer. If both (i) and

(ii) put together are sufficient to answer the question but neither statement alone is sufficient, then choice (3) is the correct answer. If both

(i) and (ii) put together are not sufficient to answer the question and additional data is needed, then choice (4) is the correct answer.

## 2. Problem Solving

**a) Sequences and Series:** Analogies of numbers and alphabet, completion of blank spaces following the pattern in  $a:b::c:d$  relationship; odd thing out: missing number in a sequence or a series.

**b) Data Analysis:** The data given in a Table, Graph, Bar diagram, Pie Chart, Venn Diagram or a Passage is to be analyzed and the questions pertaining to the data are to be answered.

**c) Coding and Decoding Problems:** A code pattern of English Alphabet is given. A given word or a group of letters are to be coded or decoded based on the given code or codes.

**d) Date, Time & Arrangement Problems:** Calendar problems, clock problems, blood relationships, arrivals, departures and schedules, seating arrangements, symbol and notation interpretation.

## Section-B: Communication Ability

### Objectives of the Test:

Candidates will be assessed on the ability to:

1. Identify vocabulary used in the day-to-day communication (**Vocabulary**).
2. Understand the functional use of grammar in day-to-day communication as well as in the business contexts (**Functional Grammar**).
3. Identify the basic terminology and concepts in computer and business contexts (letters, reports, memoranda, agenda, minutes etc. (**Business and Computer terminology**)).
4. Understand written text and drawing inferences (**Reading Comprehension (4 Passages)**).

## Section -C: Mathematical Ability

### I. **Arithmetical Ability:**

Laws of indices, ratio and proportion; surds; numbers and divisibility, l.c.m. and g.c.d; Rational numbers, Ordering; Percentages; Profit and loss; Partnership, Pipes and cisterns, time, distance and work problems, areas and volumes, mensuration, modular arithmetic.

### II. **Algebraical and Geometrical Ability:**

Statements, Truth tables, implication converse and inverse, Tautologies-Sets, Relations and functions, applications - Equation of a line in different forms.

Trigonometry - Trigonometric ratios, Trigonometric ratios of standard angles, ( $0^\circ$ ,  $30^\circ$ ,  $45^\circ$ ,  $60^\circ$ ,  $90^\circ$ ,  $180^\circ$ ): Trigonometric identities: sample problems on heights and distances, Polynomials; Remainder theorem and consequences; Linear equations and expressions; Progressions, Binomial Theorem, Matrices, Notion of a limit and derivative; Plane geometry - lines, Triangles, Quadrilaterals, Circles, Coordinate geometry-distance between points.

### **III. Statistical Ability:**

Frequency distributions, Mean, Median, Mode, Standard Deviation, Correlation, simple problems on Probability.