

COMMON RESEARCH APTITUDE TEST (CRAT) FOR PERSONS WITH DISABILITIES (PWD category posts)

The main objective of present test is to assess the Research Aptitude, and Cognitive Capabilities and Behavioural Skills of the candidates. Therefore, the test is aimed at assessing the research/general aptitude as well as their awareness and knowledge about organization and current S&T. The following components are suggested to prepare for Common research aptitude test .

1. Logical reasoning

- Blood relation.
- Coding & Decoding.
- Number letter Series.
- Analogy.
- Alphabet test.
- Verbal classification.
- Reasoning logical diagram: simple diagrammatic relationship, multi diagrammatic relationship.
- This component is intended to measure the ability of imagination, visualization and ability to reorient objects from different angles. It also measures the perceptions, conceptions and analytical approaches which is important in any R&D job.

2. Data interpretation

- Sources, acquisition and interpretation of data.
- Quantitative and qualitative data.
- Graphical representation (Bar charts, Graphs, Pie charts) and mapping of data.
- This component measures the ability of data interpretation, deductive and inductive reasoning, visualization and imagination.

3. Reading Comprehension

- These questions consist of a short passage of test and some related questions.
- This section is intended to measure the ability of candidates to understand and interpret written information i.e. research paper etc.
- This section is also intended to measure the ability of critical reasoning and verbal deductions.

4. Numerical Ability

- Number series, Letter series, codes;
- Relationships, classification
- This section is intended to measure the candidate's ability to apply correct numeric operators to problems to find out the correct solutions and measure numerical capability and innate mathematical reasoning with the real world issues.

5. Current science and technology

- Current developments in DRDO (Defence Technology), Space technology and information and communication technology.
- Natural hazards and mitigation
- This component will measure the ability of awareness in the field the S&T with special reference to modern technology and applied sciences for mankind.

6. Problem solving & Decision Making

- Syllogism.
- Statement & Assumptions.
- Statement & Arguments.
- Assertion & Reason.
- Sitting Arrangements.
- Logical Venn Diagrams.
- This section is intended to measure the candidates ability of require attention, setting goals, finding or designing suitable course of action, evaluating and choosing goals and decision making.

7. Behavioural & Interpersonal Skills

- Team - Spirit
- Loyalty
- Integrity
- Interpersonal communication
- This component is intended to measure the ability of Behavioural domain of the candidate for creating congenial work environment
- Questions of this domain will be situation based only.
