

CAT 2025 DILR (Slot-3) Question Paper

Time Allowed : 120 Minutes

Maximum Marks : 204

Total questions : 68

General Instructions

Read the following instructions very carefully and strictly follow them:

1. The total duration of the test is **120 Minutes**, with **40 minutes** allotted per section.
2. The question paper is divided into **three sections**:
 - **Section 1:** Verbal Ability and Reading Comprehension (VARC) – 24 questions
 - **Section 2:** Data Interpretation and Logical Reasoning (DILR) – 22 questions
 - **Section 3:** Quantitative Aptitude (QA) – 22 questions
3. Each correct answer carries **+3 marks**.
4. For multiple-choice questions (MCQs), **–1 mark** will be deducted for each wrong answer.
5. There is **no negative marking** for Type-in-the-Answer (TITA) questions.

1. Six employees A, B, C, D, E, F are to be assigned to three projects (P1, P2, P3), each with exactly two employees, under the following constraints:

A and D cannot be together;

B must be with C or F;

E must be in a project different from C;

F cannot be in P1.

How many valid assignments are possible?

(A) 8

(B) 10

(C) 12

(D) 14

2. Eight people P, Q, R, S, T, U, V, W are seated in two rows of four each.

Rules:

- 1. P sits directly in front of R.**
- 2. Q is somewhere to the right of P (same row).**
- 3. T and S cannot be in the same row.**
- 4. W must be in the front row.**
- 5. U must sit immediately left of V (same row).**

How many seating arrangements are possible?

(A) 12

(B) 16

(C) 18

(D) 20

3. Four companies C1, C2, C3, C4 must interview candidates P, Q, R, S over four time slots (T1–T4). Each candidate gets one unique slot and each company interviews exactly one candidate per slot.

Constraints:

- 1. P cannot be interviewed by C1 or C3.**
- 2. Q must be interviewed in either T1 or T4.**
- 3. R must be interviewed before S.**
- 4. C4 only interviews in T2 or T3.**
- 5. No company interviews the same candidate as last year:
(C1–P), (C2–Q), (C3–R), (C4–S).**

How many valid interview schedules are possible?

- (A) 6
- (B) 8
- (C) 10
- (D) 12

4. In a survey of 250 people about three activities (Reading, Sports, Travel), the following data are given:

130 like Reading,

110 like Sports,

120 like Travel,

55 like both Reading and Sports,

50 like both Sports and Travel,

45 like both Reading and Travel,

25 like all three.

How many like only Travel?

- (A) 35
- (B) 40
- (C) 45
- (D) 50

5. Five lectures L1, L2, L3, L4, L5 must be scheduled from Monday to Friday (one each day).

Five professors A, B, C, D, E will take one lecture each. Constraints:

1. A takes L3.

2. L2 must be scheduled after L5.

3. C does not teach on Wednesday or Friday.

4. D teaches before E.

5. B does not teach L4.

How many valid schedules are possible?

(A) 12

(B) 15

(C) 18

(D) 20

6. A delivery driver must travel from Source (S) to Destination (D).

Possible paths:

$S \rightarrow A \rightarrow C \rightarrow D$,

$S \rightarrow B \rightarrow C \rightarrow D$,

$S \rightarrow A \rightarrow E \rightarrow D$,

$S \rightarrow B \rightarrow F \rightarrow D$.

Rules:

1. A route cannot repeat a node.

2. A route cannot have more than 3 edges.

3. C cannot be visited if E is visited.

4. B cannot be used if F is used.

How many valid routes exist from S to D?

(A) 3

(B) 4

(C) 5

(D) 6

7. Four teams T1, T2, T3, T4 play a tournament where each team plays exactly two matches.

Rules:

- 1. No match ends in a draw.**
- 2. T1 defeats T3.**
- 3. T4 plays exactly one match before it plays T2.**
- 4. T2 wins exactly one match.**
- 5. T3 does not defeat T4.**
- 6. Total matches = 4.**

How many valid sequences of wins/losses across all matches are possible?

- (A) 6
 - (B) 8
 - (C) 10
 - (D) 12
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