

CAT 2025 DILR SLOT 1 Question Paper

Time Allowed :40 Minutes	Maximum Marks :66	Total Questions :22
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General Instructions

Read the following instructions very carefully:

1. The total duration of the test is **40 minutes** per section.
2. Each correct answer carries **+3 marks**.
3. For multiple-choice questions (MCQs), **-1 mark** will be deducted for each wrong answer.
4. There is **no negative marking** for Type-in-the-Answer (TITA) questions.
5. Once the allotted time for a section ends, you will automatically move to the next section. You cannot go back to a previous section.
6. All answers must be entered on the computer screen using the mouse and keyboard. Rough sheets will be provided.
7. The use of calculators, mobile phones, or any other electronic device is strictly prohibited. An on-screen basic calculator will be provided.

Q1. A, B, C, D, E, and F are seated around a circular table facing the center. B sits third to the left of A. Only one person sits between C and D. E is not a neighbor of A or C. F sits immediately to the right of D. How many distinct seating arrangements satisfy all conditions?

- (A) 0
- (B) 1
- (C) 2
- (D) 3
- (E) 4

Q2. A store sells four products — P, Q, R, and S — across four days (Mon–Thu), exactly one product per day. P is not sold on Monday or Wednesday. R is sold before Q. S is not sold on Thursday. Exactly one of P or Q is sold on Tuesday. How many valid schedules are possible?

- (A) 1
- (B) 2
- (C) 3
- (D) 4
- (E) 5

Q3. A group of 120 students attend at least one of three workshops: Data, Logic, and Verbal. 48 attend Data, 60 attend Logic, 50 attend Verbal. 20 attend both Data & Logic, 15 attend both Logic & Verbal, 12 attend both Data & Verbal, and 8 attend all three. How many students attend exactly one workshop?

- (A) 80
- (B) 85
- (C) 88
- (D) 90
- (E) 92

Q4. Four machines A, B, C, D produce items in a ratio. A produces 40 more than B. C produces 20% more than A. D produces half of B. If total production is 860 items, how many items did Machine C produce?

- (A) 248
- (B) 298
- (C) 300
- (D) 312
- (E) 350

Q5. Six people — P, Q, R, S, T, U — stand in a line. P is somewhere ahead of Q. Exactly two people stand between Q and R. S is not adjacent to P or R. T is not in the first or last position. How many distinct valid arrangements are possible?

- (A) 20
- (B) 22
- (C) 23
- (D) 24
- (E) 25

Q6. A delivery network allows routes from Start (S) to End (E) through intermediate hubs A, B, C. Allowed edges: $S \rightarrow A, S \rightarrow B, A \rightarrow C, A \rightarrow E, B \rightarrow C, C \rightarrow E$. A route cannot visit more than 3 nodes including S and E. How many valid routes from S to E are possible?

- (A) 1
 - (B) 2
 - (C) 3
 - (D) 4
 - (E) 5
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Q7. Four players — W, X, Y, Z — play a round-robin tournament (each plays each once). A win gives 2 points, loss 0. W scores more points than X. Y wins exactly one match. Z does not lose to X. How many distinct possible point-tables exist for the four players?

- (A) 2
 - (B) 3
 - (C) 4
 - (D) 5
 - (E) 6
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