

## CAT 2015 DILR Slot 2 Question Paper

**Time Allowed :3 Hours**

**Maximum Marks :300**

**Total questions :100**

### General Instructions

**Read the following instructions very carefully and strictly follow them:**

1. **Duration of Section:** 40 Minutes
2. **Total Number of Questions:** 22 Questions (as per latest pattern, may vary slightly)
3. **Section Covered:** Quantitative Aptitude (QA)
4. **Type of Questions:**
  - Multiple Choice Questions (MCQs)
  - Type In The Answer (TITA) Questions – No options given, answer to be typed in
5. **Marking Scheme:**
  - +3 marks for each correct answer
  - -1 mark for each incorrect MCQ
  - No negative marking for TITA questions
6. **Syllabus Coverage:** Arithmetic, Algebra, Geometry, Number System, Modern Math, and Mensuration
7. **Skills Tested:** Numerical ability, analytical thinking, and problem-solving

## Data Interpretation and Logical Reasoning

### Set 1: Sales Revenue of Four Stores

The table below shows the sales revenue (in Rs. lakhs) of four stores (P, Q, R, S) in three months (January, February, March) in 2015.

Store	January	February	March
P	20	25	30
Q	15	20	25
R	30	35	40
S	10	15	20

1. What is the percentage increase in sales revenue of Store Q from January to March?

- (a) 50%
  - (b) 60%
  - (c) 66.67%
  - (d) 75%
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2. Which store had the highest total sales revenue across the three months?

- (a) Store P
  - (b) Store Q
  - (c) Store R
  - (d) Store S
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3. In which month was the total sales revenue across all stores the lowest?

- (a) January
  - (b) February
  - (c) March
  - (d) All equal
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4. What is the average sales revenue per store in February? (Non-MCQ, enter the value in lakhs.)

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### **Set 2: Book Arrangement**

Five books (A, B, C, D, E) are arranged in a row on a shelf. The following conditions apply:

1. Book A is not at either end
2. Book B is to the immediate left of Book C
3. Book D is not adjacent to Book E.
4. Book E is in the third position.

5. Which book is in the first position?

- (a) B
  - (b) C
  - (c) D
  - (d) E
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6. Which book is to the immediate right of Book A?

- (a) B
  - (b) C
  - (c) D
  - (d) E
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7. Which book is in the last position?

- (a) A
  - (b) B
  - (c) C
  - (d) D
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8. How many books are between Book E and Book D? (Non-MCQ, enter the number.)

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### **Set 3: Expenditure Distribution**

A company's expenditure in 2015 (total Rs. 200 crores) is distributed as follows: Salaries 40%, Rent 20%, Utilities 15%, Marketing 10%, Miscellaneous 15

**9.** What is the expenditure on Salaries?

- (a) 60 crores
  - (b) 70 crores
  - (c) 80 crores
  - (d) 90 crores
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**10.** What is the ratio of expenditure on Rent to Miscellaneous?

- (a) 4:3
  - (b) 3:2
  - (c) 4:5
  - (d) 5:4
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**11.** What is the total expenditure on Utilities and Marketing?

- (a) 50 crores
  - (b) 55 crores
  - (c) 60 crores
  - (d) 65 crores
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**12.** By how much does the expenditure on Salaries exceed that on Rent? (Non-MCQ, enter the value in crores.)

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**Set 4: Team Selection Puzzle**

A manager must select a team of 3 employees from 5 (E1, E2, E3, E4, E5) with the following conditions:

1. If E1 is selected, E2 is not selecte(d)
2. E3 and E4 cannot both be selecte(d)
3. E5 is always selecte(d)

**13.** Which employee is always in the team with E5?

- (a) E1
  - (b) E2
  - (c) E3
  - (d) None
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**14.** How many valid teams can be formed?

- (a) 3
  - (b) 4
  - (c) 5
  - (d) 6
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**15.** If E1 is selected, which employee cannot be in the team?

- (a) E2
  - (b) E3
  - (c) E4
  - (d) E5
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**16.** If E3 is selected, how many valid teams are possible? (Non-MCQ, enter the number.)

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**Set 5: Course Enrollment**

In a college, 120 students are enrolled in three courses: Math (M), Physics (P), and Chemistry (C). 70 take Math, 60 take Physics, 50 take Chemistry. 30 take Math and Physics, 20 take Physics and Chemistry, 15 take Math and Chemistry, and 10 take all three.

**17.** How many students take exactly one course?

- (a) 65
  - (b) 70
  - (c) 75
  - (d) 80
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**18.** How many students take at least two courses?

- (a) 35
  - (b) 40
  - (c) 45
  - (d) 50
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**19.** How many students take only Physics?

(a) 15

(b) 20

(c) 25

(d) 30

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**20.** How many students do not take Math? (Non-MCQ, enter the number.)

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