

CAT 2012 DILR Slot 2 Question Paper

Time Allowed :3 Hours	Maximum Marks :300	Total questions :100
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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

1. The following table shows the sales (in thousands) of four products over three months.

What is the total sales of Product A across all months?

Month	Product A	Product B	Product C
Jan	50	30	20
Feb	60	40	25
Mar	55	35	30

- (1) 155
 - (2) 160
 - (3) 165
 - (4) 170
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2. Using the same table, what is the percentage increase in sales of Product B from January to February?

- (1) 25%
 - (2) 33.33%
 - (3) 40%
 - (4) 50%
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3. Five friends (A, B, C, D, E) sit in a row. A is to the left of B, and C is not at an end. How many arrangements are possible?

- (1) 24
 - (2) 36
 - (3) 48
 - (4) 60
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4. A pie chart shows expenses: Rent (40%), Food (25%), Transport (20%), Others (15%). If total expenses are Rs. 20,000, what is the amount spent on Food?

- (1) Rs. 4,000
- (2) Rs. 5,000
- (3) Rs. 6,000

(4) Rs. 7,000

5. Four teams (P, Q, R, S) play a tournament. Each team plays every other team once. P wins 2 matches, Q wins 1, R wins 0. How many matches did S win?

- (1) 0
 - (2) 1
 - (3) 2
 - (4) 3
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6. A bar chart shows sales (in lakhs) of Company X: 2010 (50), 2011 (60), 2012 (70). What is the average sales over these years?

- (1) 55 lakhs
 - (2) 60 lakhs
 - (3) 65 lakhs
 - (4) 70 lakhs
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7. Six students (A, B, C, D, E, F) are seated in a circle. A is not adjacent to B, and C is adjacent to D. How many arrangements are possible?

- (1) 60
 - (2) 120
 - (3) 180
 - (4) 240
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8. A company's revenue (in crores) is: Q1 (20), Q2 (25), Q3 (30), Q4 (35). What is the percentage contribution of Q2 to total revenue?

- (1) 20%
 - (2) 22.73%
 - (3) 25%
 - (4) 27.27%
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9. In a group of 5 people, each shakes hands with every other person exactly once. How many handshakes occur?

- (1) 10
- (2) 12
- (3) 15
- (4) 20

10. A table shows the number of students in three courses (A, B, C) across two years:

Year	Course A	Course B	Course C
2020	100	150	200
2021	120	180	220

What is the percentage increase in total students from 2020 to 2021?

- (1) 12%
- (2) 14.29%
- (3) 15%
- (4) 16.67%

11. Four friends (A, B, C, D) sit at a square table, one per side. A cannot sit opposite B. How many arrangements are possible?

- (1) 4
- (2) 6
- (3) 8
- (4) 12

12. A company's profit (in lakhs) is: 2010 (40), 2011 (50), 2012 (60). What is the percentage growth from 2010 to 2012?

- (1) 40%
- (2) 50%
- (3) 60%
- (4) 70%

13. A, B, C, D are four friends. A and B always sit together. How many ways can they sit in a row?

- (1) 12
- (2) 24
- (3) 36
- (4) 48

14. A pie chart shows market share: Company A (30%), B (25%), C (20%), D (15%), E (10%). If total market size is Rs. 50 crores, what is Company C's share?

- (1) Rs. 8 crores
- (2) Rs. 10 crores
- (3) Rs. 12 crores
- (4) Rs. 15 crores

15. In a class, 60% students play cricket, 50% play football, and 30% play both. How many students play at least one sport?

- (1) 70%
- (2) 80%
- (3) 90%
- (4) 100%

16. A table shows production (in units) of two factories:

Month	Factory X	Factory Y
Jan	200	300
Feb	250	350
Mar	300	400

What is the ratio of total production of Factory X to Factory Y?

- (1) 2:3
- (2) 3:4

(3) 4:5

(4) 5:6

17. Three brothers (A, B, C) divide 12 chocolates. A gets twice as many as B, and B gets twice as many as C. How many does A get?

(1) 4

(2) 6

(3) 8

(4) 10

18. A bar chart shows sales (in thousands): Product A (2010: 50, 2011: 60), Product B (2010: 40, 2011: 50). Which product has higher percentage growth?

(1) Product A

(2) Product B

(3) Both equal

(4) Cannot determine

19. In a survey, 70% like Tea, 60% like Coffee, 50% like both. What percentage like only Tea?

(1) 10%

(2) 20%

(3) 30%

(4) 40%

20. Five books (P, Q, R, S, T) are arranged on a shelf. P is not at an end, and Q is next to R. How many arrangements are possible?

(1) 24

(2) 36

(3) 48

(4) 60

21. A table shows expenses (in thousands): Rent (50), Food (30), Travel (20). What is the percentage of Rent in total expenses?

- (1) 45.45%
 - (2) 50%
 - (3) 55.55%
 - (4) 60%
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22. In a group of 6 people, 3 are selected for a team. How many ways can the team be formed?

- (1) 15
 - (2) 20
 - (3) 25
 - (4) 30
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23. A, B, C, D sit in a row. A is not next to B, and C is next to D. How many arrangements are possible?

- (1) 6
 - (2) 12
 - (3) 18
 - (4) 24
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24. A table shows sales (in units): Product A (100, 120, 140), Product B (80, 100, 120) over 3 years. What is Product A's average sales?

- (1) 110
 - (2) 120
 - (3) 130
 - (4) 140
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25. In a survey, 80% like Product X, 70% like Product Y, 60% like both. What percentage like neither?

- (1) 10%

- (2) 15%
 - (3) 20%
 - (4) 25%
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26. A, B, C, D, E sit in a row. B is not at an end, and C is to the left of D. How many arrangements are possible?

- (1) 24
 - (2) 36
 - (3) 48
 - (4) 60
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27. A table shows sales (in lakhs): Q1 (20), Q2 (25), Q3 (30), Q4 (35). What is the percentage increase from Q1 to Q4?

- (1) 50%
 - (2) 60%
 - (3) 75%
 - (4) 80%
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28. In a class, 40 students take Math, 30 take Science, 20 take both. How many students are in the class?

- (1) 40
 - (2) 50
 - (3) 60
 - (4) 70
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29. A, B, C, D sit around a circular table. A is opposite B. How many arrangements are possible?

- (1) 2
- (2) 4
- (3) 6
- (4) 8

30. A table shows production (in units): Factory A (200, 250, 300), Factory B (150, 200, 250). What is Factory A's average production?

- (1) 230
- (2) 250
- (3) 270
- (4) 290

31. In a tournament, 5 teams play each other once. Total matches are won as: Team A (3), B (2), C (1), D (0). How many matches did Team E win?

- (1) 0
- (2) 1
- (3) 2
- (4) 3

32. A pie chart shows expenses: Salaries (50%), Rent (30%), Utilities (20%). If Salaries are Rs. 25,000, what is the total expense?

- (1) Rs. 40,000
 - (2) Rs. 45,000
 - (3) Rs. 50,000
 - (4) Rs. 55,000
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