CAT 2011 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 for Questions 1-4:

The following table shows the sales (in Rs. lakh) of three products (A, B, C) across four regions (North, South, East, West) in 2011.

Region	Product A	Product B	Product C
North	50	30	20
South	40	60	30
East	20	40	50
West	30	20	40

1. What is the total sales of Product A across all regions?

(1) Rs. 120 lakh

(2) Rs. 130 lakh

(3) Rs. 140 lakh

(4) Rs. 150 lakh

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2. Which region has the highest total sales across all products?

(1) North

(2) South

(3) East

(4) West

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3. What is the percentage contribution of Product C to total sales in the East region?

(1) 40%

(2) 45.45%

(3) 50%

(4) 55.55%

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4. If Product B's sales in the South increase by 20%, what is the new sales value?

(1) Rs. 68 lakh

(2) Rs. 70 lakh

(3) Rs. 72 lakh

(4) Rs. 74 lakh

Data for Questions 5-8:

Five people (P, Q, R, S, T) sit in a row facing north.

- P is not at an end.

- Q is to the immediate right of P.

- R is second to the left of S.

- T is not adjacent to P or Q.

5. Who is seated at the leftmost position?

(1) R

(2) S

(3) T

(4) Cannot determine

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6. Who is seated immediately to the right of S?

(1) P

(2) Q

(3) T

(4) R

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7. Which position is Q in?

(1) 2nd

(2) 3rd

(3) 4th

(4) 5th

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8. Who is seated between T and P?

(1) R

(2) S

(3) Q

(4) None

Data for Questions 9-12:

A company's expenses in 2011 are divided as follows: Salaries 40%, Rent 20%, Utilities 15%, Marketing 15%, Miscellaneous 10%. Total expenses are Rs. 500 lakh.

9. What is the amount spent on Salaries?

(1) Rs. 180 lakh

(2) Rs. 190 lakh

(3) Rs. 200 lakh

(4) Rs. 210 lakh

10. What is the combined amount spent on Rent and Utilities?

(1) Rs. 165 lakh

(2) Rs. 175 lakh

(3) Rs. 185 lakh

(4) Rs. 195 lakh

11. If Miscellaneous expenses increase by 50%, what is the new amount?

(1) Rs. 60 lakh

(2) Rs. 65 lakh

(3) Rs. 70 lakh

(4) Rs. 75 lakh

12. What is the ratio of Marketing to Salaries expenses?

(1) 2:5

(2) 3:8

(3) 3:7

(4) 3:5

Data for Questions 13-16:

A team of 3 is to be selected from 5 people (A, B, C, D, E).

- A and B cannot be together.

- C and D must be together.

- E cannot be with D.

13. Which of the following is a valid team?

(1) A, B, C

(2) C, D, E

(3) A, C, D

(4) B, C, E

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14. If A is in the team, who else must be included?

(1) B and C

(2) C and D

(3) D and E

(4) B and E

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15. If E is in the team, who cannot be included?

(1) A

(2) B

(3) C

(4) D

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16. How many valid teams are possible?

(1) 1

(2) 2

(3) 3

(4) 4

Data for Questions 17-20:

A bar chart shows the number of units sold by a company for four products (P1, P2, P3, P4) in two years (2010, 2011).

Product	2010	2011
P1	200	250
P2	150	180
P3	300	270
P4	100	120

17. Which product had the highest percentage increase in sales from 2010 to 2011?

(1) P1

(2) P2

(3) P3

(4) P4

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18. What is the total sales in 2011?

(1) 800 units

(2) 820 units

(3) 840 units

(4) 860 units

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19. Which product had a decrease in sales from 2010 to 2011?

(1) P1

(2) P2

(3) P3

(4) P4

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20. What is the percentage of P1's sales in 2011 relative to total 2011 sales?

(1) 28.05%

(2) 30.49%

(3) 32.93%

(4) 35.37%

Data for Questions 21-24:

6

Four tasks (A, B, C, D) are scheduled on four days (1, 2, 3, 4), one task per day.

- A is before B.

- C is not on day 1.

- D is on day 3 or 4.

- B is not on day 4.

21. Which task is on day 3?

(1) A

(2) B

(3) C

(4) D

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22. Which task is on day 4?

(1) A

(2) B

(3) C

(4) D

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23. Which task is on day 1?

(1) A

(2) B

(3) C

(4) D

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24. Which task cannot be on day 2?

(1) A

(2) B

(3) C

(4) D

Data for Questions 25-28:

A shop sells three items: X, Y, Z. In January, X sold 100 units at Rs. 50/unit, Y sold 80 units at Rs. 60/unit, Z sold 50 units at Rs. 40/unit. In February, X's units increased by 20%, Y's by 25%, Z's by 10%. Prices remain the same.

25. What is the total revenue in January?

(1) Rs. 11,800

(2) Rs. 12,000

(3) Rs. 12,200

(4) Rs. 12,400

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26. What is the total revenue in February?

(1) Rs. 13,750

(2) Rs. 14,050

(3) Rs. 14,200

(4) Rs. 14,650

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27. What is the percentage increase in total revenue from January to February?

(1) 20.34%

(2) 21.19%

(3) 22.03%

(4) 23.88%

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28. Which item had the highest revenue in February?

(1) X

(2) Y

(3) Z

(4) X and Y

Data for Questions 29-32:

Four students (A, B, C, D) are assigned to four projects (P1, P2, P3, P4), one each.

- A does not get P1.

- B gets P2 or P3.

- C does not get P3.

- D gets P4.

29. Which student gets P4?

(1) A

(2) B

(3) C

(4) D

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30. Which project does B get?

(1) P1

(2) P2

(3) P3

(4) P4

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31. Which project does A get?

(1) P1

(2) P2

(3) P3

(4) P4

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32. Which project does C get?

(1) P1

(2) P2

(3) P3

(4) P4