CAT 2013 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

1. The following table shows the sales (in units) of four products across five cities in a month. Which city has the highest total sales across all products?

City	Product A	Product B	Product C	Product D
Mumbai	120	150	100	80
Delhi	100	130	90	100
Kolkata	80	110	120	90
Chennai	110	140	80	70
Bangalore	130	160	110	60

(1) Mumbai

(2) Delhi

(3) Kolkata

(4) Bangalore

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2. Using the table as, which product has the highest average sales across all cities?

City	Product A	Product B	Product C	Product D
Mumbai	120	150	100	80
Delhi	100	130	90	100
Kolkata	80	110	120	90
Chennai	110	140	80	70
Bangalore	130	160	110	60

(1) Product A

(2) Product B

(3) Product C

(4) Product D

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3. Four friends—Alice, Bob, Charlie, and Dana—each buy a different fruit: apple, banana, orange, or grape. Alice does not buy grapes. Bob buys neither apples nor oranges. Charlie does not buy bananas. Who buys the orange?

(1) Alice

(2) Bob

(3) Charlie

(4) Dana

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4. Four friends—Alice, Bob, Charlie, and Dana—each buy a different fruit: apple, banana, orange, or grape. Alice does not buy grapes. Bob buys neither apples nor oranges. Charlie does not buy bananas, who buys the grapes?

(1) Alice

(2) Bob

(3) Charlie

(4) Dana

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5. The bar chart shows the revenue (in lakhs) of a company from three products—X, Y, and Z—over four years (2010–2013). In which year is the total revenue highest?

Year	Product X	Product Y	Product Z
2010	50	40	30
2011	60	50	40
2012	70	60	50
2013	80	55	45

(1) 2010

(2) 2011

(3) 2012

(4) 2013

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6. Using the bar chart, which product has the highest total revenue across all four years?

Year	Product X	Product Y	Product Z
2010	50	40	30
2011	60	50	40
2012	70	60	50
2013	80	55	45

(1) Product X

(2) Product Y

(3) Product Z

(4) None of the above

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7. Five people—A, B, C, D, and E—are seated in a row. A is not next to B. C is next to D. E is not at the ends. Who is in the middle?

(1) A

(2) B

(3) C

(4) E

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8. Five people—A, B, C, D, and E—are seated in a row. A is not next to B. C is next to D. E is not at the ends, who can be at the leftmost end (position 1)?

(1) A

(2) C

(3) E

(4) B

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9. A pie chart shows the percentage distribution of a company's expenses: Salaries (40%), Rent (20%), Utilities (15%), Marketing (15%), Miscellaneous (10%). If total expenses are 10,00,000, what is the amount spent on Salaries?

(1) 2,00,000

(2) 3,00,000

(3) 4,00,000

(4) 5,00,000

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10. A pie chart shows the percentage distribution of a company's expenses: Salaries (40%), Rent (20%), Utilities (15%), Marketing (15%), Miscellaneous (10%). If total expenses are 10,00,000, what is the combined amount spent on Rent and Utilities?

(1) 3,00,000

(2) 3,50,000

(3) 4,00,000

(4) 4,50,000

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11. A school schedules four classes—Math, Physics, Chemistry, and Biology—in four time slots (9 AM, 10 AM, 11 AM, 12 PM). Math is not at 9 AM. Chemistry is immediately before Physics. Biology is not at 12 PM. Which class is at 11 AM?

(1) Math

(2) Physics

(3) Chemistry

(4) Biology

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12. A school schedules four classes—Math, Physics, Chemistry, and Biology—in four time slots (9 AM, 10 AM, 11 AM, 12 PM). Math is not at 9 AM. Chemistry is immediately before Physics. Biology is not at 12 PM, which class is at 9 AM?

(1) Math

(2) Physics

(3) Chemistry

(4) Biology

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13. A line graph shows the monthly sales (in units) of a product in 2013. January: 200, February: 250, March: 300, April: 280, May: 320. What is the average monthly sales from January to May?

(1) 260

(2) 270

(3) 280

(4) 290

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14. A line graph shows the monthly sales (in units) of a product in 2013. January: 200, February: 250, March: 300, April: 280, May: 320, what is the percentage increase in sales from January to March?

(1) 40%

(2) 50%

(3) 60%

(4) 75%

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15. Three boxes contain gold, silver, and bronze coins. One box has only gold, one only silver, one only bronze. Labels are incorrect. You choose one box and draw one coin at random. It's gold. What is the probability the other coins in that box are also gold?

(1) 1/3

(2) 1/2

(3) 2/3

(4) 1

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16. Three boxes contain gold, silver, and bronze coins. One box has only gold, one only silver, one only bronze. Labels are incorrect. You choose one box and draw one coin at random. It's gold, what is the probability you chose the box labeled "Silver"?

(1) 1/3

(2) 1/2

(3) 2/3

(4) 0

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17. The table shows the number of students in four courses across three years. Which year has the highest total enrollment?

Year	Course A	Course B	Course C	Course D
2011	50	60	40	30
2012	55	65	45	35
2013	60	70	50	40

(1) 2011

(2) 2012

(3) 2013

(4) None of the above

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18. Using the table, which course has the lowest average enrollment across the three years?

Year	Course A	Course B	Course C	Course D
2011	50	60	40	30
2012	55	65	45	35
2013	60	70	50	40

(1) Course A

(2) Course B

(3) Course C

(4) Course D

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19. Four teams—P, Q, R, S—play in a tournament. Each team plays exactly one match against each other team. P wins against Q and R. S wins against Q. R wins against S. Which team has the most wins?

(1) P

(2) Q

(3) R

(4) S

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20. Four teams—P, Q, R, S—play in a tournament. Each team plays exactly one match against each other team. P wins against Q and R. S wins against Q. R wins against S, using the same setup as Question 19, how many matches does Q win?

(1) 0

(2) 1

(3) 2

(4) 3

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21. The table shows the production (in tons) of three crops in four regions. Which region produces the most wheat?

Region	Wheat	Rice	Corn
North	500	300	200
South	400	350	250
East	450	400	300
West	600	200	150

(1) North

(2) South

(3) East

(4) West

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22. Using the table, what is the total production of all crops in the South region?

Region	Wheat	Rice	Corn
North	500	300	200
South	400	350	250
East	450	400	300
West	600	200	150

(1) 900 tons

(2) 950 tons

(3) 1000 tons

(4) 1050 tons

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23. Three employees—X, Y, Z—are assigned to three projects—P1, P2, P3. Each project gets one employee. X cannot work on P2. Y cannot work on P3. Who works on P2?

(1) X

(2) Y

(3) Z

(4) Cannot be determined

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24. Three employees—X, Y, Z—are assigned to three projects—P1, P2, P3. Each project gets one employee. X cannot work on P2. Y cannot work on P3, who works on P3?

(1) X

(2) Y

(3) Z

(4) Cannot be determined

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25. A bar chart shows the number of customers visiting a store on five days: Monday (150), Tuesday (200), Wednesday (180), Thursday (220), Friday (250). What is the percentage increase in customers from Monday to Friday?

(1) 60%

(2) 66.67%

(3) 70%

(4) 75%

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26. A bar chart shows the number of customers visiting a store on five days: Monday (150), Tuesday (200), Wednesday (180), Thursday (220), Friday (250), what is the average number of customers per day?

(1) 190

(2) 200

(3) 210

(4) 220

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27. Four students—A, B, C, D—choose one subject each: History, Math, Science, English. A does not choose History. B does not choose Math. C does not choose English. Who chooses Science?

(1) A

(2) B

(3) C

(4) D

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28. Four students—A, B, C, D—choose one subject each: History, Math, Science, English. A does not choose History. B does not choose Math. C does not choose English, who chooses History?

(1) A

(2) B

(3) C

(4) D

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29. A pie chart shows a company's revenue sources: Product Sales (50%), Services (30%), Investments (20%). If total revenue is 20,00,000, what is the revenue from Services?

(1) 4,00,000

(2) 5,00,000

(3) 6,00,000

(4) 7,00,000

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30. A pie chart shows a company's revenue sources: Product Sales (50%), Services (30%), Investments (20%). If total revenue is 20,00,000, what is the difference between revenue from Product Sales and Investments?

(1) 5,00,000

(2) 6,00,000

(3) 7,00,000

(4) 8,00,000

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31. Four cities—W, X, Y, Z—are connected by roads. W is connected to X and Y. X is connected to W and Z. Y is connected to W and Z. Z is connected to X and Y. Which city has the most connections?

(1) W

(2) X

(3) Y

(4) Z

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32. Four cities—W, X, Y, Z—are connected by roads. W is connected to X and Y. X is connected to W and Z. Y is connected to W and Z. Z is connected to X and Y, how many roads are there in total?

(1) 3

(2) 4

(3) 5

(4) 6
