

CAT 2016 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

Logical Reasoning

1. In a family of six members—P, Q, R, S, T, and U—there are three males and three females. P is married to Q, and they have two daughters, S and T. R is the only son of P. U is the mother-in-law of Q. Who is the father-in-law of Q?

- (a) R
 - (b) S
 - (c) T
 - (d) None of these
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2. If 'A + B' means A is the brother of B, 'A – B' means A is the sister of B, and 'A × B' means A is the father of B, then which of the following means that M is the daughter of N?

- (a) $N \times M$
 - (b) $M - N$
 - (c) $N + M$
 - (d) $M \times N$
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3. Statements: All lawyers are educate(d) Some educated people are engineers.

Conclusions:

I. Some lawyers are engineers.

II. Some engineers are educate(d)

- (a) Only I follows
 - (b) Only II follows
 - (c) Both I and II follow
 - (d) Neither I nor II follows
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4. Five students—A, B, C, D, and E—are seated in a row facing north. B is second to the left of (d) E is to the immediate right of (a) C is not at an en(d) Who is in the middle?

- (a) A
 - (b) B
 - (c) C
 - (d) D
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5. If the day after tomorrow is Wednesday, what day is it today?

- (a) Monday
 - (b) Tuesday
 - (c) Sunday
 - (d) Friday
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6. Pointing to a woman, Raj says, “She is the mother of my brother’s wife.” How is the woman related to Raj?

- (a) Sister
 - (b) Mother
 - (c) Wife
 - (d) Mother-in-law
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7. Statements: Some books are novels. All novels are stories.

Conclusions:

I. Some stories are novels.

II. Some books are stories.

- (a) Only I follows
 - (b) Only II follows
 - (c) Both I and II follow
 - (d) Neither I nor II follows
-

8. In a code, if APPLE is coded as BQQMF, how is BANANA coded?

- (a) CBQBPB
 - (b) CAOBOB
 - (c) CBNCPD
 - (d) CBOCPD
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9. Four friends—A, B, C, D—are seated around a circular table. A is to the left of (b) C is opposite (d) Who is to the immediate right of A?

- (a) B
 - (b) C
 - (c) D
 - (d) Cannot be determined
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10. If all roses are flowers, and some flowers are red, which of the following must be true?

- (a) Some roses are red
 - (b) All flowers are roses
 - (c) Some red things are roses
 - (d) None of these
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Quantitative Techniques

11. A shopkeeper sells an item at a 20% profit. If he reduces the cost price by 10% and sells it at Rs. 10 less, he still earns a 25% profit. What is the original cost price?

- (a) Rs. 100
 - (b) Rs. 120
 - (c) Rs. 150
 - (d) Rs. 200
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12. The table shows the percentage distribution of students in four departments:

Department	Percentage of Students
Physics	25%
Chemistry	30%
Mathematics	20%
Biology	25%

If there are 400 students, and 40% of Physics students are female, how many female students are in Physics?

- (a) 40
 - (b) 50
 - (c) 60
 - (d) 80
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13. A and B can complete a task in 12 days, B and C in 15 days, A and C in 20 days. How many days will A alone take?

- (a) 20
 - (b) 30
 - (c) 40
 - (d) 60
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14. A bag contains 4 red, 3 white, and 2 blue balls. Two balls are drawn. What is the probability both are red?

- (a) $\frac{1}{6}$
 - (b) $\frac{1}{12}$
 - (c) $\frac{1}{9}$
 - (d) $\frac{2}{9}$
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15. A car travels from A to B at 60 km/h and returns at 40 km/h. What is the average speed?

- (a) 48 km/h
- (b) 50 km/h
- (c) 52 km/h
- (d) 45 km/h

16. A man can row at 6 km/h in still water. If the river flows at 2 km/h and it takes him 1 hour to row to a place and return, what is the distance to the place?

- (a) 2 km
 - (b) 2.5 km
 - (c) 3 km
 - (d) 4 km
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17. The sum of ages of a father and son is 50 years. Five years ago, the father's age was four times the son's age. What is the father's current age?

- (a) 35
 - (b) 40
 - (c) 45
 - (d) 50
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18. A rectangle has an area of 60 cm² and a perimeter of 32 cm. What is the length if it is greater than the width?

- (a) 10 cm
 - (b) 12 cm
 - (c) 14 cm
 - (d) 16 cm
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19. A sum of Rs. 10,000 is invested at 5% per annum compound interest for 2 years. What is the total amount?

- (a) Rs. 11,000
 - (b) Rs. 11,025
 - (c) Rs. 11,050
 - (d) Rs. 11,100
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20. In a class, 60% of students are boys, and 40% are girls. If 30% of boys and 20% of girls passed an exam, what percentage of the class passed?

- (a) 26%
- (b) 28%

(c) 30%

(d) 32%
