

# CAT

## Sample Question Paper - 2023

Country: IN | Duration: 2 hours | Max Marks: 228 | Language: English

Negative Marking: Yes (-1) | Total Questions: 66 | QuizVerse AI Tutor

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### General Instructions:

1. This paper contains 66 questions across 3 section(s): Quantitative Aptitude, Verbal Ability & Reading Comprehension, D
2. Duration: 2 hours. Maximum marks: 228.
3. Negative marking: Yes (-1).
4. Read each question carefully before answering.

### Section 1: Quantitative Aptitude (22 Questions)

**Q1. A boat goes 30 km upstream and 22 km downstream in 7 hours. The speed of current is:**

- (A) 3 km/h
- (B) 5 km/h
- (C) 2 km/h
- (D) 1 km/h

**Q2. If the ratio of A's income to B's income is 7:5, and A earns Rs. 20000, B earns:**

- (A) Rs. 17000
- (B) Rs. 59000
- (C) Rs. 37000
- (D) Rs. 43000

**Q3. The compound interest on Rs. 20000 at 11% for 3 years is:**

- (A) Rs. 17938
- (B) Rs. 20339
- (C) Rs. 4435
- (D) Rs. 11517

**Q4. The average of 16 numbers is 45. If one number 34 is removed, the new average is:**

- (A) 69.9
- (B) 57.7
- (C) 37.8
- (D) 33.5

**Q5. A boat goes 26 km upstream and 23 km downstream in 6 hours. The speed of current is:**

- (A) 3 km/h
- (B) 4 km/h
- (C) 4 km/h
- (D) 1 km/h

**Q6. The profit percentage when CP = Rs.191 and SP = Rs.589 is:**

- (A) 34%
- (B) 43%
- (C) 26%
- (D) 23%

**Q7. The HCF of 36 and 160 is:**

- (A) 23
- (B) 31
- (C) 6
- (D) 21

**Q8. If  $\log_2(64) = x$ , then  $x =$**

- (A) 3
- (B) 5
- (C) 5
- (D) 4

**Q9. A and B can do a work in 17 and 22 days. Together they finish in:**

- (A) 6.9 days
- (B) 5.1 days
- (C) 6.8 days
- (D) 7.6 days

**Q10. If the ratio of A's income to B's income is 7:3, and A earns Rs. 52000, B earns:**

- (A) Rs. 34000
- (B) Rs. 10000
- (C) Rs. 48000
- (D) Rs. 57000

**Q11. The probability of selecting 4 red balls from a bag of 8 red and 6 blue is:**

- (A)  $11/50$
- (B)  $14/88$
- (C)  $20/55$
- (D)  $20/68$

**Q12. A train 257 m long crosses a pole in 20 s. Its speed is:**

- (A) 30.8 km/h
- (B) 48.4 km/h
- (C) 34.6 km/h
- (D) 30.5 km/h

**Q13. A mixture has milk and water in ratio 5:1. Water added to make ratio 1:1 is:**

- (A) 11 litres
- (B) 14 litres
- (C) 14 litres
- (D) 8 litres

**Q14. If  $\log_2(8) = x$ , then  $x =$**

- (A) 6
- (B) 4
- (C) 5
- (D) 6

**Q15. The probability of selecting 4 red balls from a bag of 6 red and 4 blue is:**

- (A)  $17/58$
- (B)  $5/35$
- (C)  $14/22$
- (D)  $10/63$

**Q16. A mixture has milk and water in ratio 5:3. Water added to make ratio 1:1 is:**

- (A) 2 litres
- (B) 7 litres
- (C) 3 litres
- (D) 12 litres

**Q17. A and B can do a work in 11 and 18 days. Together they finish in:**

- (A) 6.7 days
- (B) 6.2 days
- (C) 11.6 days
- (D) 11.3 days

**Q18. A train 113 m long crosses a pole in 30 s. Its speed is:**

- (A) 24.9 km/h
- (B) 25.5 km/h
- (C) 58.4 km/h
- (D) 32.8 km/h

**Q19. A boat goes 21 km upstream and 13 km downstream in 5 hours. The speed of current is:**

- (A) 1 km/h
- (B) 5 km/h
- (C) 3 km/h
- (D) 4 km/h

**Q20. A and B can do a work in 19 and 17 days. Together they finish in:**

- (A) 11.6 days
- (B) 8.5 days
- (C) 5.2 days
- (D) 6.5 days

**Q21. If  $\log_2(64) = x$ , then  $x =$**

- (A) 6
- (B) 5
- (C) 5
- (D) 3

**Q22. The compound interest on Rs. 32000 at 9% for 3 years is:**

- (A) Rs. 29882
- (B) Rs. 28741
- (C) Rs. 18416
- (D) Rs. 15937

## Section 2: Verbal Ability & Reading Comprehension (22 Questions)

**Q23. The graph supports which claim from the passage?**

- (A) Claim in paragraph 3
- (B) Claim in paragraph 1
- (C) Both claims
- (D) Neither claim

**Q24. The word 'ephemeral' most nearly means:**

- (A) mysterious
- (B) short-lived
- (C) permanent
- (D) powerful

**Q25. According to the passage, the primary cause was:**

- (A) Economic factors
- (B) Political decisions
- (C) Social changes
- (D) Natural disasters

**Q26. The passage's organizational pattern is best described as:**

- (A) Spatial
- (B) Chronological
- (C) Compare and contrast
- (D) Cause and effect

**Q27. Which word best completes: 'The scientist's \_\_\_\_ approach led to groundbreaking discoveries.'**

- (A) haphazard
- (B) methodical
- (C) timid
- (D) reckless

**Q28. The passage implies that the outcome was:**

- (A) Irrelevant
- (B) Unexpected
- (C) Desired
- (D) Inevitable

**Q29. Which choice provides the most relevant detail?**

- (A) Option D: rhetorical question
- (B) Option C: personal anecdote
- (C) Option B: general statement
- (D) Option A: specific data

**Q30. Which rhetorical device does the author employ in line 15?**

- (A) Onomatopoeia
- (B) Analogy
- (C) Hyperbole
- (D) Alliteration

**Q31. The passage implies that the outcome was:**

- (A) Desired
- (B) Inevitable
- (C) Unexpected
- (D) Irrelevant

**Q32. The word 'pernicious' most nearly means:**

- (A) harmful
- (B) temporary
- (C) neutral
- (D) beneficial

**Q33. Which evidence best supports the author's claim?**

- (A) Statistical data in paragraph 2
- (B) The title
- (C) The conclusion
- (D) The anecdote in paragraph 1

**Q34. According to the passage, the primary cause was:**

- (A) Social changes
- (B) Economic factors
- (C) Natural disasters
- (D) Political decisions

**Q35. Which choice most effectively combines the underlined sentences?**

- (A) Using a semicolon
- (B) Using 'but'
- (C) Using a dash
- (D) Using 'and'

**Q36. In the passage, the author's tone can best be described as:**

- (A) hostile
- (B) analytical
- (C) sarcastic
- (D) indifferent

**Q37. The primary purpose of the passage is to:**

- (A) argue a position
- (B) tell a story
- (C) list facts
- (D) describe a scene

**Q38. The function of paragraph 3 is to:**

- (A) Conclude the essay
- (B) Provide a counterargument
- (C) Restate the thesis
- (D) Introduce the topic

**Q39. Which sentence best summarizes the main idea?**

- (A) The first sentence
- (B) None of these
- (C) The topic sentence
- (D) The last sentence

**Q40. In the passage, the author's tone can best be described as:**

- (A) hostile
- (B) sarcastic
- (C) analytical
- (D) indifferent

**Q41. Which evidence best supports the author's claim?**

- (A) The conclusion
- (B) The anecdote in paragraph 1
- (C) Statistical data in paragraph 2
- (D) The title

**Q42. The passage's organizational pattern is best described as:**

- (A) Compare and contrast
- (B) Chronological
- (C) Spatial
- (D) Cause and effect

**Q43. The word 'ameliorate' most nearly means:**

- (A) worsen
- (B) improve
- (C) maintain
- (D) ignore

**Q44. Which sentence best summarizes the main idea?**

- (A) The topic sentence
- (B) None of these
- (C) The first sentence
- (D) The last sentence

### **Section 3: Data Interpretation & Logical Reasoning (22 Questions)**

**Q45. In a sequence 2, 6, 12, 20, 30, the next number is:**

- (A) 42
- (B) 36
- (C) 40
- (D) 44

**Q46. If Monday is day 1, what day is the 50th day?**

- (A) Thursday
- (B) Saturday
- (C) Sunday
- (D) Friday

**Q47. If A is north of B, B is east of C, then A is in which direction from C?**

- (A) South-East
- (B) North-West
- (C) South-West
- (D) North-East

**Q48. A pie chart shows Education = 72 degrees. The percentage for education is:**

- (A) 25%
- (B) 30%
- (C) 20%
- (D) 15%

**Q49. Three friends A, B, C rank 1st, 2nd, 3rd. A is not 1st, B is not 2nd. Who is 1st?**

- (A) B
- (B) Cannot determine
- (C) B or C
- (D) A

**Q50. If the average of 5 numbers is 20 and one number is removed to give average 18, the removed number is:**

- (A) 20
- (B) 24
- (C) 28
- (D) 22

**Q51. If the average of 5 numbers is 20 and one number is removed to give average 18, the removed number is:**

- (A) 24
- (B) 28
- (C) 20
- (D) 22

**Q52. In a coding system, APPLE is coded as 50. What is MANGO coded as?**

- (A) 48
- (B) 62
- (C) 57
- (D) 55

**Q53. A bar chart shows: 2020=40, 2021=55, 2022=70, 2023=60. The year-on-year growth was highest in:**

- (A) 2022
- (B) 2021
- (C) 2020
- (D) 2023

**Q54. If Monday is day 1, what day is the 50th day?**

- (A) Saturday
- (B) Thursday
- (C) Sunday
- (D) Friday

**Q55. Five people sit in a row. A is left of B. C is right of D. E is between A and C. Who is at the rightmost?**

- (A) B
- (B) C
- (C) E
- (D) D

**Q56. In a sequence 2, 6, 12, 20, 30, the next number is:**

- (A) 44
- (B) 40
- (C) 36
- (D) 42

**Q57. Five people sit in a row. A is left of B. C is right of D. E is between A and C. Who is at the rightmost?**

- (A) B
- (B) D
- (C) C
- (D) E

**Q58. In a coding system, APPLE is coded as 50. What is MANGO coded as?**

- (A) 48
- (B) 57
- (C) 62
- (D) 55

**Q59. In a tournament with 16 teams (knockout), the total matches played are:**

- (A) 14
- (B) 15
- (C) 16
- (D) 8

**Q60. Three friends A, B, C rank 1st, 2nd, 3rd. A is not 1st, B is not 2nd. Who is 1st?**

- (A) B or C
- (B) A
- (C) Cannot determine
- (D) B

**Q61. In a coding system, APPLE is coded as 50. What is MANGO coded as?**

- (A) 62
- (B) 55
- (C) 57
- (D) 48

**Q62. A pie chart shows Education = 72 degrees. The percentage for education is:**

- (A) 30%
- (B) 15%
- (C) 20%
- (D) 25%

**Q63. From a data table: Sales in Q1 = 100, Q2 = 150, Q3 = 120, Q4 = 180. The average quarterly sales are:**

- (A) 112.5
- (B) 137.5
- (C) 120
- (D) 150

**Q64. A pie chart shows Education = 72 degrees. The percentage for education is:**

- (A) 25%
- (B) 20%
- (C) 15%
- (D) 30%

**Q65. Three friends A, B, C rank 1st, 2nd, 3rd. A is not 1st, B is not 2nd. Who is 1st?**

- (A) Cannot determine
- (B) A
- (C) B
- (D) B or C

**Q66. From a data table: Sales in Q1 = 100, Q2 = 150, Q3 = 120, Q4 = 180. The average quarterly sales are:**

- (A) 112.5
- (B) 150
- (C) 120
- (D) 137.5

# Answer Key

Q1: (D)	Q2: (C)	Q3: (A)	Q4: (C)	Q5: (D)
Q6: (B)	Q7: (A)	Q8: (A)	Q9: (A)	Q10: (B)
Q11: (A)	Q12: (C)	Q13: (D)	Q14: (A)	Q15: (C)
Q16: (C)	Q17: (C)	Q18: (D)	Q19: (A)	Q20: (B)
Q21: (B)	Q22: (C)	Q23: (B)	Q24: (B)	Q25: (A)
Q26: (D)	Q27: (B)	Q28: (B)	Q29: (D)	Q30: (B)
Q31: (C)	Q32: (A)	Q33: (A)	Q34: (B)	Q35: (A)
Q36: (B)	Q37: (A)	Q38: (B)	Q39: (A)	Q40: (C)
Q41: (C)	Q42: (D)	Q43: (B)	Q44: (C)	Q45: (A)
Q46: (B)	Q47: (D)	Q48: (C)	Q49: (C)	Q50: (C)
Q51: (B)	Q52: (C)	Q53: (B)	Q54: (A)	Q55: (A)
Q56: (D)	Q57: (A)	Q58: (B)	Q59: (B)	Q60: (A)
Q61: (C)	Q62: (C)	Q63: (B)	Q64: (B)	Q65: (D)
Q66: (D)				

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