

MAT September 13 Memory-Based Paper (PBT)

Disclaimer: Exact question papers are not officially released by AIMA. This is a "Memory-Based" question paper compiled from student feedback reflecting the new 150-question pattern.

Section 1: Language Comprehension

Analysis: The section was easy to moderate. It was dominated by Reading Comprehension, Synonyms/Antonyms, Idioms, and Para-jumbles.

Q1. Choose the word that is most nearly OPPOSITE in meaning to the word: "MITIGATE"

- A. Alleviate
- B. Aggravate
- C. Appease
- D. Diminish

Answer: B) Aggravate

Explanation: Mitigate means to make something less severe. Aggravate means to make a problem worse.

Q2. Select the correct meaning of the idiom: "To spill the beans"

- A. To drop something valuable
- B. To waste food
- C. To reveal a secret unintentionally
- D. To start a new business

Answer: C) To reveal a secret unintentionally

Q3. Rearrange the following sentences to form a coherent paragraph:

P. However, the internet has also brought new challenges like cyberbullying.

Q. The internet has revolutionized the way we communicate today.

R. It is essential to educate children about digital safety.

S. People can now connect across the globe in seconds.

A. QSPR

B. QSRP

C. SQPR

D. PQRS

Answer: A) QSPR

Explanation: Q introduces the topic (internet revolution). S elaborates on the communication aspect. P introduces the contrasting challenges. R provides the solution/conclusion.

Q4. Spot the error in the following sentence:

"Neither the manager nor the employees was present at the meeting."

A. Neither the manager

B. nor the employees

C. was present

D. at the meeting

Answer: C) was present

Explanation: According to the rule of proximity in subject-verb agreement, when "neither/nor" is used, the verb agrees with the subject closest to it ("employees"). It should be "were present."

Section 2: Intelligence & Critical Reasoning

Analysis: This section was moderate. Questions featured Blood Relations, Coding-Decoding, Number Series, and Direction Sense.

Q5. Look at this series: 2, 6, 12, 20, 30, ... What number should come next?

- A. 40
- B. 42
- C. 44
- D. 48

Answer: B) 42

Explanation: The pattern is the addition of consecutive even numbers. (+4, +6, +8, +10). The next addition is +12. So, $30 + 12 = 42$.

Q6. If in a certain code, 'COMPUTER' is written as 'RFUVQNPC', how will 'MEDICINE' be written in that code?

- A. EOJDJEFM
- B. EOJDEJFM
- C. MFEJDJOE
- D. MFEDJJOE

Answer: A) EOJDJEFM

Explanation: The letters of the word are reversed, and then each letter is moved forward by one step in the alphabet.

Q7. Pointing to a photograph, a man said, "I have no brother or sister but that man's father is my father's son." Whose photograph was it?

- A. His own
- B. His son's
- C. His father's
- D. His nephew's

Answer: B) His son's

Explanation: "My father's son" is the man himself (since he has no siblings). So, the man in the photograph's father is the speaker. Hence, the photograph is of his son.

Q8. A person walks 10 km towards the North. From there, he walks 6 km towards the South. Then, he walks 3 km towards the East. How far and in which direction is he with reference to his starting point?

- A. 5 km North-East
- B. 5 km South-East
- C. 7 km East
- D. 7 km West

Answer: A) 5 km North-East

Explanation: He is 4 km North of the starting point (10 - 6). He is 3 km East. Using Pythagoras theorem: $\sqrt{4^2 + 3^2} = \sqrt{16 + 9} = \sqrt{25} = 5$ km. Direction is North-East.

Section 3: Mathematical Skills

Analysis: Slightly calculation-intensive but manageable. Dominated by Arithmetic (Time & Work, Percentages, Profit & Loss).

Q9. A can do a piece of work in 10 days and B can do the same work in 15 days. If they work together, in how many days will the work be completed?

- A. 5 days
- B. 6 days
- C. 8 days
- D. 12 days

Answer: B) 6 days

Explanation: A's 1 day work = $1/10$. B's 1 day work = $1/15$. Total 1 day work = $1/10 + 1/15 = 5/30 = 1/6$. Therefore, 6 days.

Q10. The cost price of 20 articles is the same as the selling price of 15 articles. Find the profit percentage.

- A. 25%
- B. 30%
- C. 33.33%
- D. 50%

Answer: C) 33.33%

Explanation: Let CP of 1 article = Re 1. CP of 15 = Rs 15. SP of 15 = CP of 20 = Rs 20. Profit = 20 - 15 = 5. Profit % = $(5/15) \times 100 = 33.33\%$.

Q11. A train 150 meters long is running at a speed of 72 km/hr. How much time will it take to cross a pole?

- A. 5.5 seconds
- B. 6.5 seconds
- C. 7.5 seconds
- D. 8.5 seconds

Answer: C) 7.5 seconds

Explanation: Speed = 72 km/hr = $72 \times (5/18)$ m/s = 20 m/s. Time = Distance / Speed = 150 / 20 = 7.5 seconds.

Q12. What is the difference between the Compound Interest and Simple Interest on Rs. 5000 at 10% per annum for 2 years?

- A. Rs. 25
- B. Rs. 50
- C. Rs. 75
- D. Rs. 100

Answer: B) Rs. 50

Explanation: Formula for 2 years difference: $D = P(r/100)^2$. $D = 5000 \times (10/100)^2 = 5000 \times (1/100) =$ Rs. 50.

Section 4: Data Analysis & Sufficiency

Analysis: Data Sufficiency and basic chart interpretation (Bar graphs and Pie charts) were the main themes.

Q13. Data Sufficiency: What is the value of x ?

Statement I: x is an even integer between 10 and 15.

Statement II: x is a multiple of 3.

- A. Statement I alone is sufficient.
- B. Statement II alone is sufficient.
- C. Both statements together are sufficient.
- D. Both statements together are not sufficient.

Answer: C) Both statements together are sufficient.

Explanation: From I: x can be 12 or 14. (Not sufficient alone). From II: x can be 3, 6, 9, 12, 15... (Not sufficient alone). Combining I and II: The only even integer between 10 and 15 that is a multiple of 3 is 12. Hence, $x = 12$.

Section 5: Indian & Global Environment

Analysis: The score of this section is not added to the composite score but is considered by some specific B-Schools.

Q14. Who is the current Governor of the Reserve Bank of India (RBI)?

- A. Raghuram Rajan
- B. Urjit Patel
- C. Shaktikanta Das
- D. D. Subbarao

Answer: C) Shaktikanta Das

Q15. The recent G20 Summit in 2024 was hosted by which country?

- A. India
- B. Brazil
- C. Indonesia
- D. South Africa

Answer: B) Brazil

Q16. Which of the following bodies regulates the securities and commodity market in India?

- A. RBI
- B. SEBI
- C. NABARD
- D. IRDAI

Answer: B) SEBI

Q17. In the context of banking, what does 'repo rate' mean?

- A. Rate at which RBI lends money to commercial banks
- B. Rate at which commercial banks lend to the public
- C. Rate at which RBI borrows from commercial banks
- D. Rate of interest on savings accounts

Answer: A) Rate at which RBI lends money to commercial banks

Key Takeaways from the MAT September Exam Analysis:

- **New Pattern:** AIMA has reduced the total number of questions from 200 to **150**. The time limit is now **120 minutes**.
- **Strategy:** Because the paper is relatively easy, speed and accuracy are crucial. Attempting 100-110 questions with 85%+ accuracy yields a 90+ percentile.
- **Mathematical Skills:** Focused less on higher maths and more on 10th-grade arithmetic.