

NMAT Complete 2024 Question Paper with Solutions

Time Allowed : 2 Hours	Maximum Marks : 108
------------------------	---------------------

General Instructions

NMAT Exam Instructions

1. The NMAT exam is 2 hours long and consists of 108 questions.
2. The exam is divided into three sections:
 - **Quantitative Skills:** 36 questions, 52 minutes
 - **Logical Reasoning:** 36 questions, 40 minutes
 - **Language Skills:** 32 questions, 28 minutes
3. You can answer questions in any order across the sections.
4. There is no break in between sections.
5. Review and edit questions only within the given time for each section.
6. The system will automatically submit your answers when time is up.

1. 24 men can complete a piece of work in 16 days. 16 women can complete the same work in 12 days. 8 men and 8 women started working on the task. After 6 days, x men were added to the group such that the work was finished in 4 more days. Find the value of x .

- (A) 24
- (B) 32
- (C) 36
- (D) 40
- (E) 48

2. There are 3 chess players in the 1st year, 4 chess players in the 2nd year, and 5 chess players in the 3rd year of college. What is the probability of selecting a team of 4 chess players if at least one player is from the 1st year?

- (A) $41/55$
- (B) $27/110$
- (C) $19/66$
- (D) $37/60$
- (E) $82/99$

3. A number $x = 3.1212121212\dots$. By what least number should we multiply x , so that we obtain an integer?

- (A) 3
- (B) 9
- (C) 30
- (D) 33
- (E) 99

4. If $x^2 + y^2 + z^2 = 3$, which of the following cannot be the value of $xy + yz + zx$?

- (A) -2
- (B) -1
- (C) 0
- (D) 1
- (E) 2

5. A company manufactures only three types of vehicles: bikes, cars, and trucks. In 2021, the number of bikes manufactured was 40% of the number of bikes

manufactured in 2022. The number of trucks manufactured in 2022 was 25% more than in 2021. In 2022, the number of trucks manufactured was the average of the number of bikes and cars manufactured that year. The company manufactured 10% fewer cars in 2021 as compared to 2022. The total number of vehicles produced in 2022 was 120,000. In 2021, the ratio of bikes and trucks manufactured was 1:4. How many cars were produced in 2022?

- (A) 50000
- (B) 54000
- (C) 55000
- (D) 60000
- (E) 63000

6. Some students are sitting in a row. Amrit is at 19th position from the left. Rahul is 8th to the left of Amrit and 6th to the left of Dhaval. If Dhaval is 12th from the right, how many students are there in the row?

- (A) 28
- (B) 29
- (C) 30
- (D) 31
- (E) 32

7. A, B, C, D, E, and F form three couples that are traveling on a train. Their ages are 24, 28, 29, 32, 34, and 35 years, not necessarily in the same order. Two of them are assigned upper berths, while one each is assigned a lower, a middle, a side lower, and a side upper berth.

- The sum of the ages of the females is 14 years less than the sum of the ages of the males.
- E is the youngest of the males and is assigned one of the side berths.
- None of the females is assigned an upper berth.
- The 32-year-old is assigned the middle berth.
- D is 28 years old and is assigned the middle lower berth.
- Neither A nor C is assigned an upper berth.
- F is older than B.

Which of the following statements is definitely true?

- (A) C is older than three other people.
- (B) A is assigned a lower berth.
- (C) The two oldest persons are assigned upper berths.

- (D) A is older than B.
(E) One of the males is assigned a lower berth.
-

9. Choose the pair that best expresses a similar relationship to the one expressed in the given pair:

enchant : captivate :: urge : ?

- (A) confuse
(B) avert
(C) disagree
(D) enforce
(E) encourage
-

10. Choose the correct sequence of prepositions that completes the 3 given sentences.

When she heard the final verdict, her face took ___ a grim expression. I was taken ___ by the sudden announcement that the meeting was canceled. The students were taken ___ with the idea of organizing a charity event for the upcoming holiday season.

- (A) aback
(B) up
(C) on
(D) over
(E) after
(F) out

- (A) FAB
(B) CED
(C) BFA
(D) CAB
(E) BDE
-

11. In the given question, the sentence has four underlined words or phrases. Identify the one underlined word or phrase that must be changed in order to make the sentence correct. Mark E for no error.

The cat, with its soft paws and silent steps, crept quiet through the moonlit garden, its eyes fixed on a tiny mouse scurrying across the dewy grass.

- (A) with its soft
(B) crept quiet

- (C) its eyes fixed
 - (D) scurrying across
 - (E) No error
-

12. In the given question, the sentence has four underlined words or phrases. Identify the one underlined word or phrase that must be changed in order to make the sentence correct. Mark E for no error.

The team, on their expedition to the remote and unforgiving wilderness, faced countless challenges, from treacherous terrain to unpredictable weather.

- (A) their expedition
 - (B) the remote
 - (C) faced countless
 - (D) terrain to unpredictable
 - (E) No error
-