

## NMAT Logical Reasoning 2022 Question Paper with Solutions

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**1. Directions:** Read the passage and answer the question.

**Passage:** Automation, however essential it may be to maximise a country's economic production and minimise its costs, should be rejected. The health care industry wants to increase revenues while reducing costs. Hence, it proposes greater automation of health care. This radical automation of health care would cause patients to lose trust in the system as the health care they would receive would lack the personal touch that, according to several studies, patients desire.

**Which of the following expresses the main point of the argument?**

- (A) Due to economic forces, automation of health care is inevitable.
  - (B) Patients desire personalised care.
  - (C) Trends in the general economy do not apply to the health care industry.
  - (D) The health care industry is becoming too greedy.
  - (E) The health care industry should not be heavily automated.
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**2. Directions:** In the question there is a statement followed by two conclusions, numbered I and II. You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows from the information given in the statement.

**Statements:** Government has spoiled many top ranking financial institutions by appointing bureaucrats as directors of these institutions.

**Conclusions:**

1. Government should appoint directors of the financial institutions taking into consideration the expertise of the person in the area of finance.

2. The director of the financial institution should have expertise commensurate with the financial work carried out by the institution.

- (A) Only Conclusion I follows.
- (B) Only Conclusion II follows.
- (C) Either Conclusion I or Conclusion II follows.
- (D) Neither Conclusion I nor Conclusion II follows.
- (E) Both Conclusions I and II follow.

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**3. Directions: Read the passage below. Solve the question based on the information in the passage.**

**Passage:** Ajay would do five tasks: A, B, C, D, and E, starting at 9:00 a.m. A is the first task and takes 2 hours. B can be done after A is complete and requires 1 hour. Work on C, which would take 1 hour, can start only after A and B are completed. Ajay can do task D along with B and C, and would take 3 hours. Activity E, with a duration of 1 hour, can start upon completion of A, B, C, and D.

**What is the earliest time Ajay could complete task C?**

- (A) 11:00 a.m.
- (B) 12:00 noon
- (C) 1:00 p.m.
- (D) 2:00 p.m.
- (E) 3:00 p.m.

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**4. If Ajay takes 2 hours for task B and completes other preceding tasks without delay, when can he start task E?**

- (A) 12:00 noon
- (B) 1:00 p.m.
- (C) 2:00 p.m.

- (D) 3:00 p.m.  
(E) 4:00 p.m.
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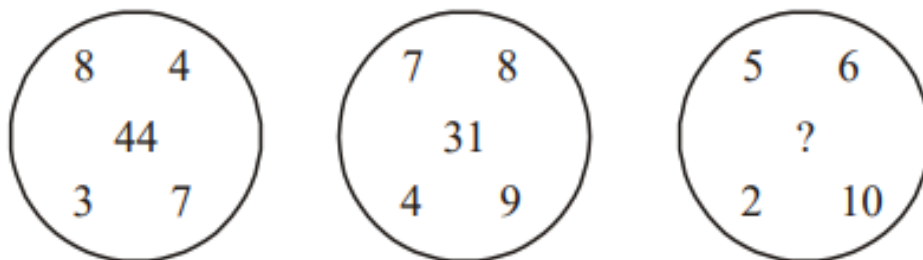
**5. What is the earliest time Ajay could complete all tasks?**

- (A) 12:00 noon  
(B) 1:00 p.m.  
(C) 2:00 p.m.  
(D) 3:00 p.m.  
(E) 4:00 p.m.
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**6. If Ajay were to start task D after the completion of task C, and take a break for an hour, then when would he complete all tasks?**

- (A) 3:00 p.m.  
(B) 4:00 p.m.  
(C) 5:00 p.m.  
(D) 6:00 p.m.  
(E) 7:00 p.m.
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**4. Which number should replace the question mark?**



- (A) 18  
(B) 38  
(C) 50  
(D) 62

(E) 70

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**1. Directions: In a marriage party, 278 guests were present. Twenty guests took Pepsi and Dew, 23 guests took Dew and Sprite, 21 guests took Pepsi and Sprite, and 9 guests took all three cold drinks (Pepsi, Sprite, and Dew). It is also known that there were equal numbers of bottles of each of the three kinds (Pepsi, Dew, and Sprite).**

**How many guests enjoyed Dew or Sprite but not Pepsi?**

- (A) 167
  - (B) 176
  - (C) 199
  - (D) 143
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**2. How many guests enjoyed Pepsi and Dew but not Sprite?**

- (A) 189
  - (B) 271
  - (C) 24
  - (D) 39
  - (E) None
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**6. Directions: The question presents a situation and asks you to make a judgment regarding that particular circumstance. Answer the question solely on the basis of the information given.**

Illegal adulterated and local alcohol that is largely in supply in the city has become a matter of concern for the citizens and administration. A meeting was called up, which involved local people as well, to discuss the situation. The local people claimed that the administration is not doing enough to deal with the situation. You are representing the administration in the meeting. What should be your reaction to these claims?

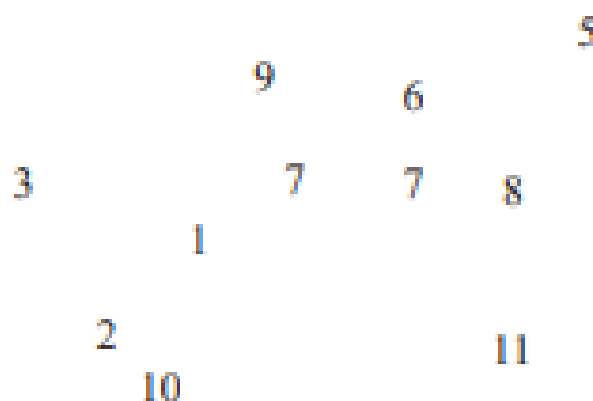
- (A) Tell them that the real problem lies with people of the city who support the business by buying illegal and adulterated alcohol, and not the district administration.

- (B) Tell the citizens to refrain from buying local liquor.
- (C) Explain that this problem occurs quite frequently and it is the responsibility of individuals in the city only who run such business to stop such activity. It is not the duty of the district administration to handle such situations.
- (D) Begin by telling the group that the district administration needs the cooperation of citizens to find a solution for this problem.
- (E) Don't say anything; let others speak on the issue.
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**7. How many pairs of letters are there in the word 'CHILDREN' such that each pair has as many letters between them in the word 'CHILDREN' as they have in the English alphabet series?**

- (A) 2
- (B) 3
- (C) 4
- (D) 5
- (E) None of these
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**8. Directions: Answer the question based on the following diagram.**



The rectangle represents bachelors.

The square represents Delhi metropolis.

The circle represents the English language.

The triangle represents tourists.

The diagram shows the following distribution of numbers:

- 10, 2 are inside the rectangle (Bachelors).
- 1, 2, 7, 8, 11 are inside the square (Delhi).
- 1, 6, 7, 9 are inside the circle (English).
- 7, 8 are inside the triangle (Tourists).
- 3, 5 are outside all shapes.

**Interpreted Regions:**

- 10: Bachelors only
- 2: Bachelors in Delhi
- 1: English speakers in Delhi
- 11: Delhi only
- 6, 9: English speakers only
- 7: English speaking tourists in Delhi
- 8: Tourists in Delhi
- 3, 5: None of the four categories

**Question:** Which of the following is not true?

- (A) Some English speaking bachelors live in Delhi.
- (B) Some bachelors do not know the English language but they are in Delhi.
- (C) Some English speaking persons are neither tourists nor are they in Delhi.
- (D) Some bachelors are tourists who live in Delhi.
- (E) None of the above statements is true.

**9. Directions:** In the question, two statements are given which are followed by four conclusions (1), (2), (3), and (4). Choose the conclusions which logically follow from the given statements.

**Statements:**

- All pens are instruments.
- Some green things are instruments.

**Conclusions:**

- (1) All pens are green.
- (2) All green things are pens.
- (3) Some instruments are green.
- (4) All instruments are pens.

(A) Only (4)

(B) Only (3)

(C) Only (2)

(D) Only (1)

(E) Only (1) & (3)