

NMAT Logical Reasoning

Sample Paper – 6

Duration: 40 Minutes

Maximum Marks: 108

Instructions

- This paper contains **36** Multiple Choice Questions (Single Correct Answer), modelled on the Logical Reasoning section of **NMAT** by GMAC.
- Each correct answer carries **+3 marks**. There is **no negative marking** for incorrect or unattempted answers, so attempt every question.
- Only **one** option is correct. Choose the most appropriate answer.
- NMAT is a computer-based test with sectional time limits; attempt this practice paper in one timed sitting of about **40 minutes**.
- Use of mobile phones, calculators or electronic gadgets is strictly prohibited.

Part A: Coding-Decoding and Series

Q1. In a certain code language, **DELHI** is written as **4-5-12-8-9**, where each letter is replaced by its position in the English alphabet. How will **INDIA** be written in the same code?

- (A) 9-14-4-1-9
- (B) 9-14-4-9-1
- (C) 9-4-14-9-1
- (D) 9-14-9-4-1

Q2. Find the next term in the number series: **3, 8, 15, 24, 35, ____**

- (A) 46
- (B) 48



(C) 50

(D) 45

Q3. Find the next term in the letter series: **B, D, G, K, ____**

(A) P

(B) O

(C) Q

(D) N

Q4. Find the next term in the number series: **5, 11, 23, 47, ____**

(A) 95

(B) 94

(C) 96

(D) 93

Q5. Which letter lies exactly midway between the 6th letter from the left and the 20th letter from the left of the English alphabet?

(A) L

(B) N

(C) M

(D) K

Q6. In a certain code, **CODE** is written as **3-15-4-5**, where each letter is replaced by its position in the English alphabet. How is **BOND** written in the same code?

(A) 2-15-4-14

(B) 2-14-15-4

(C) 2-15-14-14

(D) 2-15-14-4

Part B: Arrangements and Puzzles



Directions (Q7–Q9): Six people M, N, O, P, Q and R are seated around a circular table. **Some of them face the centre and some face outside.**

- M, N, P and R face the centre; O and Q face outside.
- N sits to the immediate left of M.
- O sits to the immediate left of N.
- P sits to the immediate right of O.
- Q sits to the immediate left of P.
- R sits to the immediate right of Q.

(For a person facing the centre, their left is the clockwise-adjacent seat; for a person facing outside, their left is the anticlockwise-adjacent seat.)

Q7. Who sits to the immediate right of P?

- (A) Q
- (B) R
- (C) N
- (D) O

Q8. How many persons sit between N and Q when counted clockwise starting from N?

- (A) Two
- (B) Three
- (C) One
- (D) Four

Q9. Which of the following pairs of persons are immediate neighbours?

- (A) M and P
- (B) N and Q
- (C) Q and R
- (D) O and M



Directions (Q10–Q12): Seven boxes T, U, V, W, X, Y and Z are placed one above another in a single stack. The lowest position is numbered 1 and the topmost is numbered 7.

- W is placed at the topmost position.
- V is placed at the lowest position.
- Z is placed immediately above V.
- X is placed immediately below U.
- T is placed immediately below X.
- Y is placed immediately above U.

Q10. Which box is placed at position four (the fourth from the bottom)?

- (A) T
- (B) U
- (C) Y
- (D) X

Q11. How many boxes are placed between T and Y?

- (A) Four
- (B) Three
- (C) Two
- (D) One

Q12. Which box is placed immediately above X?

- (A) U
- (B) X
- (C) Y
- (D) T

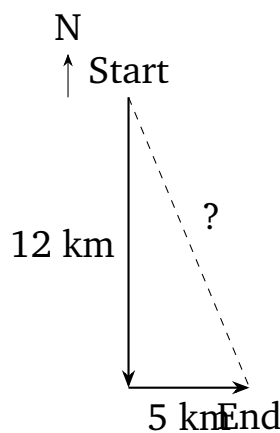
Part C: Blood Relations and Direction Sense



Q13. A is the father of B. B is the sister of C. C is the mother of D. How is A related to D?

- (A) Father
- (B) Uncle
- (C) Grandfather
- (D) Brother

Q14. A boy cycles 12 km towards the South, then turns left and cycles 5 km. How far is he now from his starting point?



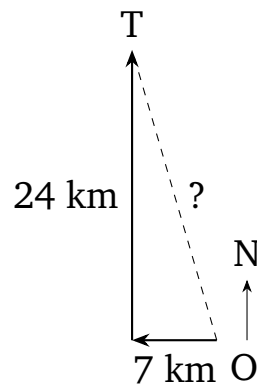
- (A) 17 km
- (B) 13 km
- (C) 7 km
- (D) 11 km

Q15. A person is facing East. He turns 90° in the clockwise direction, then turns 45° in the anticlockwise direction, and finally turns 180° . Which direction is he facing now?

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



- Q16.** P is the brother of Q. Q is the daughter of R. S is the father of P. How is R related to S?
- (A) Sister
(B) Daughter
(C) Wife
(D) Mother
- Q17.** A man starts from point O and walks 7 km towards the West. He then turns right and walks 24 km towards the North to reach point T. What is the shortest distance between O and T?



- (A) 31 km
(B) 25 km
(C) 17 km
(D) 23 km

Part D: Syllogisms

- Q18. Statements:** Some notebooks are pens. All pens are red things.
- Conclusions:**
- I. All notebooks are red things.
II. Some notebooks are red things.
- Which of the conclusions follow(s)?

- (A) Only conclusion I follows



- (B) Only conclusion II follows
- (C) Both I and II follow
- (D) Neither I nor II follows

Q19. Statements: All cups are jugs. All jugs are bottles.

Conclusions:

I. All cups are bottles.

II. All bottles are cups.

Which of the conclusions follow(s)?

- (A) Only conclusion I follows
- (B) Only conclusion II follows
- (C) Both I and II follow
- (D) Neither I nor II follows

Q20. Statements: All tigers are cats. All cats are mammals.

Conclusions:

I. All tigers are mammals.

II. Some mammals are tigers.

Which of the conclusions follow(s)?

- (A) Only conclusion I follows
- (B) Only conclusion II follows
- (C) Both I and II follow
- (D) Neither I nor II follows

Q21. Statements: Some keys are locks. Some locks are chains.

Conclusions:

I. Some keys are chains.

II. Some chains are keys.

Which of the conclusions follow(s)?

- (A) Only conclusion I follows
- (B) Only conclusion II follows



- (C) Neither I nor II follows
- (D) Both I and II follow

Q22. Statements: No apple is a mango. Some mangoes are sweet.

Conclusions:

- I. Some sweet things are not apples.
- II. All sweet things are mangoes.

Which of the conclusions follow(s)?

- (A) Only conclusion I follows
- (B) Only conclusion II follows
- (C) Both I and II follow
- (D) Neither I nor II follows

Part E: Critical Reasoning and Verbal Logic

Q23. Statement: “Enrol in our online course and land a job within six months.”
— an advertisement.

Which of the following is an assumption **implicit** in the statement?

- (A) People are likely to be drawn by the promise of quick employment.
- (B) No other institute offers online courses.
- (C) Every person who takes the course is currently unemployed.
- (D) A job can never be found without an online course.

Q24. Argument: Our company should switch most employees to remote work, because this will cut the company’s costs.

Which of the following, if true, most **strengthens** the argument?

- (A) Some employees prefer working from an office.
- (B) Remote work requires each employee to have a laptop.
- (C) Remote work can make team meetings harder to schedule.
- (D) In comparable firms, moving to remote work sharply reduced spending on office rent and utilities.



Q25. Argument: Our school should replace printed textbooks with tablets, because tablets are much lighter to carry.

Which of the following, if true, most **weakens** the argument?

- (A) Tablets can store many books in one device.
- (B) Reading on tablet screens tires students' eyes so quickly that they end up studying far less than with printed books.
- (C) Tablets are produced by several well-known companies.
- (D) Some teachers already use tablets at home.

Q26. Statement: The number of road accidents at a particular junction has risen sharply this year.

Which of the following is the most appropriate **course of action**?

- (A) The junction should be closed to all traffic permanently.
- (B) Traffic signals and speed breakers should be installed at the junction to control the flow of vehicles.
- (C) The accident figures should not be published.
- (D) Drivers who use the junction should be fined regardless of fault.

Q27. Statement I: The sale of ice cream in the city rose sharply this week.

Statement II: The number of sunstroke cases in the city rose sharply this week.

Which of the following best describes the relationship between the two statements?

- (A) Statement I is the cause and Statement II is its effect.
- (B) Statement II is the cause and Statement I is its effect.
- (C) The two statements are completely unrelated.
- (D) Both statements are effects of an independent common cause.

Q28. Statement: "A survey found that students who sleep at least seven hours a night score, on average, higher marks in examinations than students who sleep less."

Which of the following inferences follows most logically?



- (A) Sleeping less than seven hours always causes a student to fail.
- (B) Marks depend only on the number of hours a student sleeps.
- (C) Adequate sleep may contribute to better examination performance.
- (D) Students who sleep more never need to study.

Q29. Statement: “All flights from the airport were grounded today because of dense fog.”

Which of the following conclusions follows?

- (A) Fog never affects air travel.
- (B) The airport has no flights on any day.
- (C) Flights become faster during fog.
- (D) The dense fog disrupted air travel at the airport today.

Q30. Statement: “To reduce paper waste, the college has decided to send all notices to students by email.”

Which of the following is an assumption **implicit** in the statement?

- (A) Students have access to email and will check it for notices.
- (B) No student ever reads a printed notice.
- (C) Email is completely free of any cost.
- (D) Paper will soon disappear from the college entirely.

Part F: Analytical and Miscellaneous

Q31. Choose the option that best completes the analogy: **BIRD : NEST :: BEE : ?**

- (A) Honey
- (B) Hive
- (C) Flower
- (D) Sting

Q32. Find the odd one out.



- (A) Copper
- (B) Iron
- (C) Oxygen
- (D) Gold

Q33. In a certain code, **TIGER** is written as **UJHFS**. How is **LION** written in the same code?

- (A) MJPO
- (B) MJPN
- (C) MJOO
- (D) NJPO

Q34. In a row of 25 children all facing North, Amit is 9th from the left end. What is his position from the right end?

- (A) 16th
- (B) 15th
- (C) 18th
- (D) 17th

Q35. If “+” means “×”, “−” means “+”, “×” means “÷” and “÷” means “−”, then find the value of:

$$8 \div 2 + 3 \times 6 - 4$$

- (A) 9
- (B) 11
- (C) 13
- (D) 10



Q36. In each row the third number is obtained from the first two by the same rule. Find the missing number.

2 3 7

4 5 21

6 7 ?

(A) 40

(B) 42

(C) 41

(D) 43



Detailed Solutions

Q1.

Solution

Concept — Position coding (letter to number): Each letter is replaced by its serial position in the English alphabet.

Step 1: Check the given code: $D = 4$, $E = 5$, $L = 12$, $H = 8$, $I = 9$, so DELHI = 4-5-12-8-9. The rule is confirmed.

Step 2: Now take the letters of INDIA one by one.

Step 3: I is the 9th letter $\rightarrow 9$; N is the 14th letter $\rightarrow 14$.

Step 4: D is the 4th letter $\rightarrow 4$; I is the 9th letter $\rightarrow 9$; A is the 1st letter $\rightarrow 1$.

Step 5: Writing the numbers in order gives **9-14-4-9-1**.

Why other options are wrong:

- Option A: 9-14-4-1-9 swaps the last two numbers (A and I).
- Option C: 9-4-14-9-1 swaps the codes for N and D.
- Option D: 9-14-9-4-1 swaps the codes for the third and fourth letters.

Final Answer: INDIA is coded as 9-14-4-9-1 $\Rightarrow$ **B**

Answer: (B) [Go Back to Q1](#)

Q2.

Solution

Concept — Number series with growing differences: Study the gaps between consecutive terms.

Step 1: Terms: 3, 8, 15, 24, 35.

Step 2: Differences: $8 - 3 = 5$, $15 - 8 = 7$, $24 - 15 = 9$, $35 - 24 = 11$.

Step 3: The differences increase by 2 each time: 5, 7, 9, 11, so the next difference is 13.

Step 4: The next term is $35 + 13 = 48$.

Why other options are wrong:

- Option A: 46 would need a difference of 11, repeating the previous gap.



- Option C: 50 would need a difference of 15, skipping 13.
- Option D: 45 would need a difference of 10, breaking the pattern.

Final Answer: The next term is 48 $\Rightarrow$ **B**

Answer: (B) [Go Back to Q2](#)

Q3.

Solution

Concept — Letter series: Convert letters to positions and look at the pattern of the differences.

Step 1: Positions: B = 2, D = 4, G = 7, K = 11.

Step 2: The differences are $4 - 2 = 2$, $7 - 4 = 3$, $11 - 7 = 4$. The gaps increase by 1 each time.

Step 3: The next gap is 5, so the next position is $11 + 5 = 16$.

Step 4: The 16th letter of the alphabet is **P**.

Why other options are wrong:

- Option B: O is position 15, a gap of only 4.
- Option C: Q is position 17, a gap of 6.
- Option D: N is position 14, a gap of 3.

Final Answer: The next term is P $\Rightarrow$ **A**

Answer: (A) [Go Back to Q3](#)

Q4.

Solution

Concept — Number series (multiply and add): Test whether each term comes from the previous one by a fixed operation.

Step 1: Terms: 5, 11, 23, 47.

Step 2: Check $5 \times 2 + 1 = 11$. It works.

Step 3: Check $11 \times 2 + 1 = 23$, and $23 \times 2 + 1 = 47$. The rule “multiply by 2, then add 1” holds throughout.

Step 4: The next term is $47 \times 2 + 1 = 94 + 1 = 95$.



Why other options are wrong:

- Option B: 94 forgets to add the +1.
- Option C: 96 adds 2 instead of 1.
- Option D: 93 subtracts instead of adding.

Final Answer: The next term is 95 $\Rightarrow$ A

Answer: (A) [Go Back to Q4](#)

Q5.

Solution

Concept — Midway position: The letter midway between two positions is found by averaging the two position numbers.

Step 1: The 6th letter from the left is F (position 6).

Step 2: The 20th letter from the left is T (position 20).

Step 3: The midway position is $\frac{6 + 20}{2} = \frac{26}{2} = 13$.

Step 4: The 13th letter of the alphabet is M.

Why other options are wrong:

- Option A: L is position 12, one short of the middle.
- Option B: N is position 14, one past the middle.
- Option D: K is position 11, two short of the middle.

Final Answer: The middle letter is M $\Rightarrow$ C

Answer: (C) [Go Back to Q5](#)

Q6.

Solution

Concept — Position coding (letter to number): Replace each letter by its serial position in the alphabet.

Step 1: Check the given code: C = 3, O = 15, D = 4, E = 5, so CODE = 3-15-4-5. The rule is confirmed.

Step 2: Take the letters of BOND one by one.



Step 3: B is the 2nd letter $\rightarrow 2$; O is the 15th letter $\rightarrow 15$.

Step 4: N is the 14th letter $\rightarrow 14$; D is the 4th letter $\rightarrow 4$.

Step 5: Writing the numbers in order gives **2-15-14-4**.

Why other options are wrong:

- Option A: 2-15-4-14 swaps the codes for N and D.
- Option B: 2-14-15-4 swaps the codes for O and N.
- Option C: 2-15-14-14 uses 14 for D instead of 4.

Final Answer: BOND is coded as 2-15-14-4 $\Rightarrow$ D

Answer: (D) [Go Back to Q6](#)

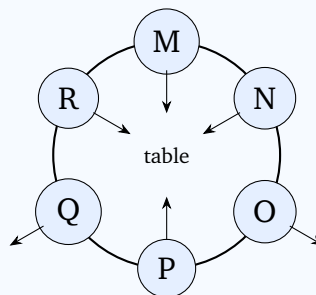
Q7.

Solution

Concept — Circular seating with mixed facing: For a person facing the centre, left is the clockwise seat and right is the anticlockwise seat; for a person facing outside, these are reversed. Build the circle from the clues.

Step 1: Taking the clues together and applying the facing rule to each person, the seats fall into a single clockwise order: **M, N, O, P, Q, R**.

Step 2: The facings are: M, N, P and R face the centre; O and Q face outside.



Step 3: P faces the centre, so P's right is the anticlockwise seat next to P.

Step 4: Moving anticlockwise from P (that is, against the clockwise order M, N, O, P, ...) the seat next to P is **O**.

Why other options are wrong:

- Option A: Q is P's clockwise neighbour, which is P's left.
- Option B: R is not adjacent to P.



- Option C: N is two seats away from P.

Final Answer: O sits to the immediate right of P $\Rightarrow$ D

Answer: (D) [Go Back to Q7](#)

Q8.

Solution

Concept — Counting on a circle: Use the clockwise order found above and count between the two named people.

Step 1: The clockwise order is M, N, O, P, Q, R.

Step 2: Start at N and move clockwise: the next seat is O, then P, then Q.

Step 3: The persons sitting between N and Q (clockwise) are O and P.

Step 4: That is **two** persons.

Why other options are wrong:

- Option B: Three would wrongly include Q, the end point.
- Option C: One misses either O or P.
- Option D: Four counts persons on the far side of the circle.

Final Answer: Two persons sit between N and Q clockwise $\Rightarrow$ A

Answer: (A) [Go Back to Q8](#)

Q9.

Solution

Concept — Immediate neighbours: Two persons are immediate neighbours if their seats are next to each other on the circle, whatever way they face.

Step 1: The clockwise order is M, N, O, P, Q, R, with R next to M to close the circle.

Step 2: The adjacent pairs are M–N, N–O, O–P, P–Q, Q–R and R–M.

Step 3: Among the options, only **Q and R** appear as an adjacent pair.

Why other options are wrong:

- Option A: M and P have N and O between them.



- Option B: N and Q are separated by O and P.
- Option D: O and M are separated by N on one side.

Final Answer: Q and R are immediate neighbours $\Rightarrow$ C

Answer: (C) [Go Back to Q9](#)

Q10.

Solution

Concept — Stack puzzle: Fix the known positions first, then use the “immediately above/below” clues.

Step 1: W is at position 7 (top) and V is at position 1 (bottom). Z is immediately above V, so Z is at position 2.

Step 2: The clues X immediately below U, T immediately below X, and Y immediately above U give the block T, X, U, Y in consecutive rising order.

Step 3: Positions 3, 4, 5 and 6 remain for this block, so T = 3, X = 4, U = 5, Y = 6.

Step 4: The full stack (top to bottom) is:

7	W
6	Y
5	U
4	X
3	T
2	Z
1	V

Step 5: Position 4 is occupied by X.

Why other options are wrong:

- Option A: T is at position 3.
- Option B: U is at position 5.
- Option C: Y is at position 6.

Final Answer: X is placed at position four $\Rightarrow$ D

Answer: (D) [Go Back to Q10](#)



Q11.

Solution

Concept — Counting between two items: Use the stack found above.

Step 1: T is at position 3 and Y is at position 6.

Step 2: The positions strictly between them are 4 and 5.

Step 3: Positions 4 and 5 hold the boxes X and U, so **two** boxes lie between T and Y.

Why other options are wrong:

- Option A: Four is more boxes than the gap allows.
- Option B: Three would need them four positions apart.
- Option D: One misses one of the two boxes in between.

Final Answer: Two boxes lie between T and Y $\Rightarrow$ C

Answer: (C) [Go Back to Q11](#)

Q12.

Solution

Concept — Immediately above: Read off the box one position higher than X.

Step 1: X is at position 4.

Step 2: The position immediately above is position 5.

Step 3: Position 5 holds U.

Why other options are wrong:

- Option B: X cannot be above itself.
- Option C: Y is at position 6, one above U.
- Option D: T is at position 3, below X.

Final Answer: U is placed immediately above X $\Rightarrow$ A

Answer: (A) [Go Back to Q12](#)



Q13.

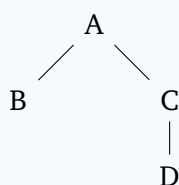
Solution

Concept — Multi-generation blood relation: Build the family across three generations, one link at a time.

Step 1: A is the father of B, so B belongs to the generation below A.

Step 2: B is the sister of C, so B and C are siblings; therefore C is also a child of A.

Step 3: C is the mother of D, so D belongs to the generation below C, that is, two generations below A.



Step 4: A is the parent of C, and C is the parent of D, so A is the father of D's mother, i.e. D's **grandfather**.

Why other options are wrong:

- Option A: A is D's grandfather, not father; D's father is not mentioned.
- Option B: An uncle would be a brother of a parent, not a grandparent.
- Option D: A brother would be in the same generation as D.

Final Answer: A is the grandfather of D $\Rightarrow$ C

Answer: (C) [Go Back to Q13](#)

Q14.

Solution

Concept — Shortest distance: The straight-line distance is the hypotenuse of the right triangle formed by the two perpendicular legs.

Step 1: The boy cycles 12 km South.

Step 2: Facing South, a left turn makes him face East; he cycles 5 km East.

Step 3: The two legs (12 km and 5 km) are at right angles, so the distance is $\sqrt{12^2 + 5^2}$.

Step 4: $12^2 + 5^2 = 144 + 25 = 169$.



Step 5: $\sqrt{169} = 13$, so he is 13 km from the start.

Why other options are wrong:

- Option A: 17 km adds the two legs directly.
- Option C: 7 km subtracts the legs.
- Option D: 11 km does not match the Pythagoras result.

Final Answer: The distance is 13 km $\Rightarrow$ B

Answer: (B) [Go Back to Q14](#)

Q15.

Solution

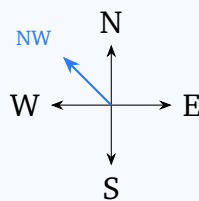
Concept — Turning directions: Track the facing direction after each turn, using 90° for a quarter turn and 45° for a half of that.

Step 1: The person starts facing East.

Step 2: Turning 90° clockwise from East makes him face South.

Step 3: Turning 45° anticlockwise from South brings him halfway back towards East, i.e. facing South-East.

Step 4: Turning 180° from South-East makes him face the exact opposite, which is **North-West**.



Why other options are wrong:

- Option A: South-East is only the facing after the second turn.
- Option B: North-East would need a different set of turns.
- Option C: South-West is the opposite of North-East, not the answer.

Final Answer: He now faces North-West $\Rightarrow$ D

Answer: (D) [Go Back to Q15](#)



Q16.

Solution

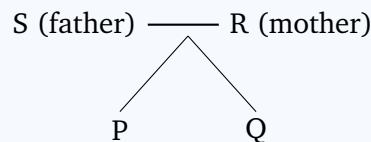
Concept — Family tree: Draw the relationships and read off the link between R and S.

Step 1: P is the brother of Q, so P and Q are siblings.

Step 2: Q is the daughter of R, so R is a parent of Q (and of P).

Step 3: S is the father of P, so S is the male parent of P and Q.

Step 4: R is the other parent of the same children. Since S is the father, R is the mother, i.e. the wife of S.



Why other options are wrong:

- Option A: A sister would be a sibling of S, not a parent of his children.
- Option B: A daughter would be one generation below S.
- Option D: “Mother” describes R’s link to P and Q, not to S.

Final Answer: R is the wife of S $\Rightarrow$ C

Answer: (C) [Go Back to Q16](#)

Q17.

Solution

Concept — Shortest distance: The direct distance from O to T is the hypotenuse of the right triangle formed by the westward and northward legs.

Step 1: The man walks 7 km West from O.

Step 2: Facing West, a right turn makes him face North; he walks 24 km North to reach T.

Step 3: The two legs (7 km and 24 km) are at right angles, so $OT = \sqrt{7^2 + 24^2}$.

Step 4: $7^2 + 24^2 = 49 + 576 = 625$.

Step 5: $\sqrt{625} = 25$, so O and T are 25 km apart.



Why other options are wrong:

- Option A: 31 km adds the two legs directly.
- Option C: 17 km subtracts the legs.
- Option D: 23 km does not match the Pythagoras result.

Final Answer: The shortest distance is 25 km $\Rightarrow$ **B**

Answer: (B) [Go Back to Q17](#)

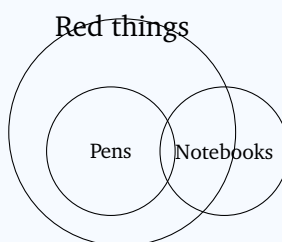
Q18.

Solution

Concept — Syllogism (some + all): A “some” statement joined to an “all” statement carries the “some” across, but not the “all”.

Step 1: “Some notebooks are pens” means the notebook and pen circles overlap.

Step 2: “All pens are red things” places the pen circle inside the red-things circle.



Step 3: The notebooks that are pens lie inside the red-things circle, so those notebooks are red things. Conclusion II (Some notebooks are red things) follows.

Step 4: Conclusion I (All notebooks are red things) is too strong, because notebooks outside the pen circle need not be red. It does not follow.

Step 5: Only Conclusion II follows.

Why other options are wrong:

- Option A: I is not guaranteed, as shown above.
- Option C: I fails, so “both” is wrong.
- Option D: II clearly follows, so “neither” is wrong.

Final Answer: Only Conclusion II follows $\Rightarrow$ **B**

Answer: (B) [Go Back to Q18](#)



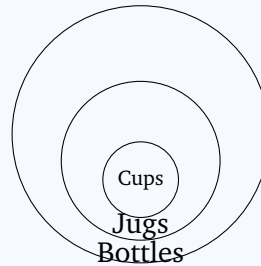
Q19.

Solution

Concept — Syllogism (chain of “all”): Two “all” statements sharing a middle term link the end terms in one direction only.

Step 1: “All cups are jugs” places the cup circle inside the jug circle.

Step 2: “All jugs are bottles” places the jug circle inside the bottle circle.



Step 3: Cups lie inside jugs, and jugs lie inside bottles, so every cup is a bottle. Conclusion I (All cups are bottles) follows.

Step 4: Conclusion II (All bottles are cups) reverses the inclusion; many bottles need not be cups. It does not follow.

Step 5: Only Conclusion I follows.

Why other options are wrong:

- Option B: II reverses the chain and fails.
- Option C: II is invalid, so “both” is wrong.
- Option D: I clearly follows, so “neither” is wrong.

Final Answer: Only Conclusion I follows $\Rightarrow$ A

Answer: (A) [Go Back to Q19](#)

Q20.

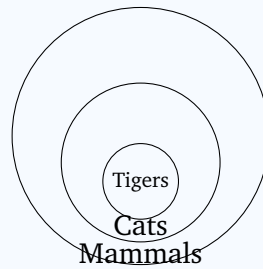
Solution

Concept — Syllogism (all + all): A chain of two “all” statements links the smallest set to the largest, and also gives a “some” in the reverse direction.

Step 1: “All tigers are cats” places the tiger circle inside the cat circle.

Step 2: “All cats are mammals” places the cat circle inside the mammal circle.





Step 3: Tigers lie inside cats, which lie inside mammals, so all tigers are mammals. Conclusion I follows.

Step 4: Since all tigers are mammals, at least those mammals are tigers, so “Some mammals are tigers” also follows. Conclusion II follows.

Step 5: Both conclusions follow.

Why other options are wrong:

- Options A and B: Each accepts only one conclusion, but both are valid.
- Option D: “Neither” ignores the clear chain of inclusion.

Final Answer: Both I and II follow $\Rightarrow$ C

Answer: (C) [Go Back to Q20](#)

Q21.

Solution

Concept — Syllogism (some + some): Two “some” statements sharing a middle term give no definite link between the end terms.

Step 1: “Some keys are locks” overlaps keys with locks.

Step 2: “Some locks are chains” overlaps locks with chains.

Step 3: The keys that are locks and the locks that are chains may be entirely different locks, so no key need be a chain.

Step 4: Therefore Conclusion I (Some keys are chains) does not necessarily follow.

Step 5: Its converse, Conclusion II (Some chains are keys), fails for the same reason.

Why other options are wrong:

- Options A and B: Neither single conclusion is guaranteed by “some + some”.



- Option D: Both cannot follow when neither is forced.

Final Answer: Neither conclusion follows $\Rightarrow$ **C**

Answer: (C) [Go Back to Q21](#)

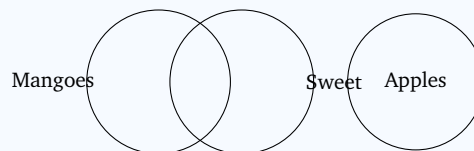
Q22.

Solution

Concept — Syllogism (no + some): Combine an exclusion with a “some” statement using a Venn diagram.

Step 1: “No apple is a mango” keeps the apple and mango circles fully separate.

Step 2: “Some mangoes are sweet” overlaps the mango circle with the sweet circle.



Step 3: The mangoes that are sweet are not apples (no mango is an apple), so those sweet things are not apples. Conclusion I (Some sweet things are not apples) follows.

Step 4: “All sweet things are mangoes” (Conclusion II) is far too strong, since some sweet things could lie outside the mango circle. It does not follow.

Step 5: Only Conclusion I follows.

Why other options are wrong:

- Option B: II is unsupported, as sweet things need not all be mangoes.
- Option C: II fails, so “both” is wrong.
- Option D: I clearly follows, so “neither” is wrong.

Final Answer: Only Conclusion I follows $\Rightarrow$ **A**

Answer: (A) [Go Back to Q22](#)



Q23.

Solution

Concept — Implicit assumption: An assumption is something taken for granted that must hold for the statement to make sense.

Step 1: The advertisement invites people by promising a job within six months.

Step 2: Such an appeal only works if the institute assumes that the promise of quick employment will actually attract people.

Step 3: So the implicit assumption is that people are likely to be drawn by the promise of quick employment (Option A).

Why other options are wrong:

- Option B: Whether other institutes exist is never suggested.
- Option C: The ad does not assume every taker is unemployed.
- Option D: It never claims a job is impossible without the course.

Final Answer: The implicit assumption is Option A $\Rightarrow$ A

Answer: (A) [Go Back to Q23](#)

Q24.

Solution

Concept — Strengthening an argument: The best strengthener adds direct evidence that the proposed action produces the claimed result.

Step 1: The argument claims that switching to remote work will cut the company's costs.

Step 2: Costs fall only if real spending, such as rent and utilities, actually goes down.

Step 3: Option D shows that in comparable firms remote work sharply reduced spending on office rent and utilities, directly supporting the claim.

Why other options are wrong:

- Option A: Employee preference does not address cost.
- Option B: Needing laptops is a possible extra cost, not support.
- Option C: Harder meetings is a drawback, not support.

Final Answer: Option D most strengthens the argument $\Rightarrow$ D



Answer: (D) [Go Back to Q24](#)

Q25.

Solution

Concept — Weakening an argument: The best weakener attacks the single reason given for the action.

Step 1: The argument recommends tablets only because they are lighter to carry.

Step 2: If tablet screens tire students' eyes so much that they study far less, the change harms learning despite the lighter weight.

Step 3: Option B directly undermines the value of the switch, so it weakens the argument most.

Why other options are wrong:

- Option A: Storing many books supports, not weakens, the switch.
- Option C: The maker's reputation does not affect the argument.
- Option D: Teachers using tablets at home is irrelevant to student learning.

Final Answer: Option B most weakens the argument $\Rightarrow$ **B**

Answer: (B) [Go Back to Q25](#)

Q26.

Solution

Concept — Course of action: A good course of action should directly address the problem in a reasonable, practical way.

Step 1: The problem is a sharp rise in road accidents at one junction.

Step 2: A sensible response is to control the flow of vehicles at that junction with signals and speed breakers.

Step 3: Option B does exactly this, so it is the most appropriate action.

Why other options are wrong:

- Option A: Closing the junction permanently is extreme and impractical.
- Option C: Hiding the figures ignores the problem.
- Option D: Fining all drivers regardless of fault is unjust and does not fix the cause.



Final Answer: Option B is the appropriate course of action $\Rightarrow$ B

Answer: (B) [Go Back to Q26](#)

Q27.

Solution

Concept — Cause and effect: Check whether one event causes the other, or both spring from a third common cause.

Step 1: Statement I: ice-cream sales rose sharply. Statement II: sunstroke cases rose sharply.

Step 2: Higher ice-cream sales do not cause sunstroke, and sunstroke does not cause ice-cream sales, so neither is the cause of the other.

Step 3: Both rise together during a spell of very hot weather. A heatwave makes people buy more ice cream and also causes more sunstroke.

Step 4: So both statements are effects of an independent common cause (the hot weather), which is Option D.

Why other options are wrong:

- Options A and B: Neither event directly causes the other.
- Option C: They are clearly linked through the weather, not unrelated.

Final Answer: Both statements are effects of a common cause $\Rightarrow$ D

Answer: (D) [Go Back to Q27](#)

Q28.

Solution

Concept — Inference: A valid inference is a moderate conclusion that the statement reasonably supports.

Step 1: The survey links sleeping at least seven hours to higher average exam marks.

Step 2: From this it is reasonable to infer that getting enough sleep may help exam performance.

Step 3: Option C states exactly this cautious inference (note the word “may”).

Why other options are wrong:



- Option A: “Always causes a student to fail” is far too strong.
- Option B: Marks depend on many factors, not sleep alone.
- Option D: The statement never says more sleep removes the need to study.

Final Answer: Option C is the logical inference $\Rightarrow$ C

Answer: (C) [Go Back to Q28](#)

Q29.

Solution

Concept — Statement and conclusion: A conclusion must follow directly from the wording of the statement.

Step 1: The statement says all flights were grounded today because of dense fog.

Step 2: This tells us the fog disrupted the airport’s air travel today.

Step 3: Option D restates this directly, so it follows.

Why other options are wrong:

- Option A: The statement shows fog does affect air travel.
- Option B: Grounded flights still exist; the airport clearly has flights.
- Option C: Nothing suggests flights are faster during fog.

Final Answer: Option D follows from the statement $\Rightarrow$ D

Answer: (D) [Go Back to Q29](#)

Q30.

Solution

Concept — Implicit assumption: The plan makes sense only if a certain belief is taken for granted.

Step 1: The college decides to send all notices to students by email.

Step 2: This decision only makes sense if the college believes students have email access and will actually check it.

Step 3: Option A captures this assumption.

Why other options are wrong:

- Option B: The plan does not assume no one reads printed notices.



- Option C: The cost of email is not the assumption behind the decision.
- Option D: The plan is about notices, not about removing all paper.

Final Answer: Option A is the implicit assumption $\Rightarrow$ A

Answer: (A) [Go Back to Q30](#)

Q31.

Solution

Concept — Analogy: Name the relationship in the first pair, then find the option that repeats it.

Step 1: A nest is the home that a bird builds and lives in.

Step 2: The relationship is “creature : the home it builds and lives in”.

Step 3: The home a bee builds and lives in is a **hive**, so Option B completes the analogy.

Why other options are wrong:

- Option A: Honey is what a bee makes, not where it lives.
- Option C: A flower is where a bee feeds, not its home.
- Option D: A sting is a body part of the bee, not its home.

Final Answer: Bee : Hive completes the analogy $\Rightarrow$ B

Answer: (B) [Go Back to Q31](#)

Q32.

Solution

Concept — Odd one out: Find the common category shared by all but one item.

Step 1: Copper, Iron and Gold are all metals.

Step 2: Oxygen is a gas (a non-metal), not a metal.

Step 3: So the odd one out is **Oxygen** (Option C).

Why other options are wrong:

- Option A: Copper is a metal, like the others.
- Option B: Iron is a metal.
- Option D: Gold is a metal.



Final Answer: Oxygen is the odd one out $\Rightarrow$ C

Answer: (C) [Go Back to Q32](#)

Q33.

Solution

Concept — Coding by shift: Find the shift from the sample word, then apply it letter by letter.

Step 1: In TIGER $\rightarrow$ UJHFS, each letter moves forward by one: $T \rightarrow U$, $I \rightarrow J$, $G \rightarrow H$, $E \rightarrow F$, $R \rightarrow S$.

Step 2: The rule is $+1$ for every letter.

Step 3: Apply to LION: $L \rightarrow M$, $I \rightarrow J$, $O \rightarrow P$, $N \rightarrow O$.

Step 4: The code is **MJPO**.

Why other options are wrong:

- Option B: MJPN leaves N unshifted.
- Option C: MJOO leaves O unshifted.
- Option D: NJPO shifts L by two instead of one.

Final Answer: LION is coded as MJPO $\Rightarrow$ A

Answer: (A) [Go Back to Q33](#)

Q34.

Solution

Concept — Position in a row: If the total number of people is T and a person is m th from one end, then the position from the other end is $T - m + 1$.

Step 1: The row has $T = 25$ children, and Amit is 9th from the left.

Step 2: Position from the right $= 25 - 9 + 1$.

Step 3: $25 - 9 = 16$, and $16 + 1 = 17$.

Step 4: So Amit is 17th from the right end.

Why other options are wrong:

- Option A: 16th forgets the $+1$ for Amit's own place.



- Option B: 15th subtracts too much.
- Option C: 18th adds one too many.

Final Answer: Amit is 17th from the right $\Rightarrow$ D

Answer: (D) [Go Back to Q34](#)

Q35.

Solution

Concept — Operator substitution: Replace each symbol by the operation it stands for, then evaluate using the normal order of operations.

Step 1: The substitutions are $+$ $\rightarrow$ $\times$, $-$ $\rightarrow$ $+$, $\times$ $\rightarrow$ $\div$, $\div$ $\rightarrow$ $-$.

Step 2: Rewrite $8 \div 2 + 3 \times 6 - 4$ as $8 - 2 \times 3 \div 6 + 4$.

Step 3: Do multiplication and division from left to right: $2 \times 3 = 6$.

Step 4: Then $6 \div 6 = 1$.

Step 5: Now add and subtract from left to right: $8 - 1 = 7$, and $7 + 4 = 11$.

Why other options are wrong:

- Option A: 9 comes from mishandling the order of operations.
- Option C: 13 adds instead of subtracting the 1.
- Option D: 10 drops one unit somewhere in the working.

Final Answer: The value is 11 $\Rightarrow$ B

Answer: (B) [Go Back to Q35](#)

Q36.

Solution

Concept — Number matrix: Find one rule that turns the first two numbers of a row into the third, then test it on every row.

Step 1: Row 1: $2 \times 3 = 6$, and $6 + 1 = 7$, which matches the third number.

Step 2: Row 2: $4 \times 5 = 20$, and $20 + 1 = 21$, which also matches.

Step 3: The rule is: third number = (first $\times$ second) $+1$.

Step 4: Row 3: $6 \times 7 = 42$, and $42 + 1 = 43$.



Why other options are wrong:

- Option A: 40 does not fit the rule.
- Option B: 42 forgets to add the +1.
- Option C: 41 undershoots the correct total.

Final Answer: The missing number is 43 $\Rightarrow$ D

Answer: (D) [Go Back to Q36](#)



Answer Key

Q	Ans	Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	B	2	B	3	A	4	A	5	C
6	D	7	D	8	A	9	C	10	D
11	C	12	A	13	C	14	B	15	D
16	C	17	B	18	B	19	A	20	C
21	C	22	A	23	A	24	D	25	B
26	B	27	D	28	C	29	D	30	A
31	B	32	C	33	A	34	D	35	B
36	D								

