

IMBA (NEP) Semester-2 Examination

MDC_IMBA_124

Logical & Critical Reasoning

Time : 2-00 Hours]

April-2024

[Max. Marks : 50]

Instructions:

1. The figures on the right-hand side indicate marks.
2. Use of calculators is **NOT allowed**.

Q-1 (a) What is logical thinking? Explain the difference between ordinary thinking and critical thinking with example [05 MARKS]

Q-1 (b) Directions (1-5): Study the following information and answer the question:
The following questions are based on the given 3-digit numbers. [05 MARKS]

821 547 452 935 368

- 1 The product of the second and the third digit in which numbers is the second highest
- 2 The difference of the first and the second digits in how many of the given numbers is greater than the third digit of the same number ?
- 3 If all the digits of the given numbers are arranged in ascending order within the numbers, what will be the sum of the second and third digits of the second highest number thus formed?
- 4 If the first digit and the third digit of all the given numbers are interchanged, which number will become the second lowest number after performing the said operation?
- 5 If '2' is added to the second digit of all even numbers and '3' is subtracted from the first digit of all odd numbers, in how many numbers thus formed will a digit appear twice ?

OR

Q-1 (a) What is reasoning? Also, Explain the difference between Inductive reasoning and Deductive reasoning with example [05 MARKS]

(b) Direction (1-5): Study the following information carefully and answer the questions given below. [05 MARKS]

4 K % R T 3 E P # A 7 B 9 D I Q @ 2 8 V U © H J 5 F 1 % 6 M W

P.T.O

Shalu started from point A and traveled towards north for 16 km to reach point D. After reaching point D she turned towards her right and travelled for 12 km to reach point K. From point K, she travelled 10 km towards south direction and reached point E. If Shalu had travelled towards north for 6 km from point K she would have reached point J. Point Q is to the North of point J and 20 km away from D which is the shortest distance from point D. From point E, she travelled 6 km towards west then she took a left turn and travelled certain distance to reach point S [05 MARKS]

1. What is the distance between point Q and E?
2. What is the direction of point D with respect to point Q?

Q-2 (b) Directions : Study the following information to answer the given questions:
[05 MARKS]

In a certain code language:

"only in serial order" is written as "ve pu na to".

"order in the state" is written as "li ve su pu".

"the logical idea only" is written as "su na ri jo".

"the logical idea only" is written as "z t j o b k p u"; "a idea or theory" is written as "z t j o b k p u".

1. What is the code of 'theory'?
2. The code 'li ri to ve' may represent
 - a) serial order theory only
 - b) only idea state order
 - c) state logical serial order
 - d) serial theory state the
 - e) only the idea logical
3. Which of the following may represent "logical idea is only order"?

a) jo na ri ge ve
 b) ve na ri jo pu
 c) ri ve na zt bk

d) bk to pu jo ve
 e) na ve su li pu

4. What is the code of "logical"?
 5. What is the code of "serial"?

OR

(a) Directions: Read the following information carefully and answer the questions given beside [05 MARKS]

- A and B are standing at a distance of 20 km from each other on a straight East-West road. A and B start walking simultaneously, eastwards and westwards respectively, and both cover a distance of 5 km. Then A turns to his left and walks 10 km. 'B' turns to his right and walks 10 km and at the same speed. Then both turn to their left and cover a distance of 5 km at the same speed. What will be the distance between them?
- Rohit walked 25 meters towards South. Then he turned to his left and walked 20 meters. He then turned to his left and walked 25 meters. He again turned to his right and walked 15 meters. At what distance is he from the starting point and in which direction?

(b) Directions (1-5): Study the following information to answer the given questions:
 In a certain code 'her idea has merit' is written as 'fo la bu na', 'merit list has been displayed' is written as 'jo ke la si na' and 'her name displayed there' is written as 'ya si bu zo', 'name in merit list' is written as 'na ya go ke' [05 MARKS]

1. What does 'ke' stand for?
 2. What is the code for 'idea'?
 a) fo b) la c) bu d) na e) Either bu or na
 3. Which of the following represents 'name has been displayed'?
 a) ya la ke si c) si jo ke na
 b) jo na ya la d) buy a ke la
 4. What does 'zo' stand for?
 5. What is the code for 'in'?

Q-3 (a) Direction (1-5) Study the following information carefully and answer the below questions.

Eight persons- L, M, N, O, P, Q, R, and S are sitting at the circular table facing outside but not necessarily in the same order.

P sits second to the right of R. Two persons are sitting between S and Q. Q sits adjacent to R. M sits third to the right of L. M and P are not immediate neighbors. L sits second to the left of O. The number of persons sitting between N and M is the same as between N and S

[05 MARKS]

1 Who sits second to the right of Q?
 2 How many people sit between N and M when counted from the right of N?
 3 Which of the following statement is/are false?
 I) O and M are sitting adjacent to each other

II) Only one person sits between R and L
III) S sits immediate right of L
A. Only I and III
B. Only III
C. Only I and II
4. What is the position of P with respect to O?
5. Four of the five among the following are similar in such a way to form a group, who among the following doesn't belong to the group?
A. OM B. QR C. NP D. LS E. SQ

Q-3 (b) Direction (6-10): Answer the questions based on the information given below. [05 MARKS]

Eight persons viz. M, N, O, P, Q, R, S and T are sitting on a circular table such that all of them are facing towards the center, but not necessarily in the same order. O sits adjacent to T who faces towards P. Only two persons sit between O and N. S sits to the immediate right of N and second to the right of R. M neither sits adjacent to O nor sits facing towards S.

6. Who sits second to the left of P?
7. If M is related to O and T is related to N in a certain way, then who is related to S?
8. How many persons sit between R and T when counted from the right of R?
A. As many as between S and N when counted from left of S
B. As many as between M and Q when counted from right of M
C. As many as between S and P when counted from left of P
D. As many as between Q and O when counted from right of O
E. None of these
9. What is the position of P with respect to O?
10. Who sits to the immediate right and left of M respectively?

OR

(a) Direction (1-5): Answer the questions based on the information given below. [05 MARKS]

Ten persons i.e., A, B, C, D, E, P, Q, R, S and T are sitting in a single row and all are facing to the North direction, but not necessarily in same order. A sits 4th from the extreme end. Three persons sit between A and B. C sits immediate right of B. Two persons sit between C and D. Three persons sit between R and C. R sits immediate left of P. E sits to the right of R. Two persons sit between S and T. S sits to the left of T.

1. Who sits third to the left of P?
2. How many persons sit between R and T?
3. Who are sitting at extreme end?
4. Who sit second to the right of S?
5. The number of persons sitting left of B is same as the number of persons sitting right of which of the following person?

(a) P
(b) R
(c) Q

(d) S
(e) None of these

(b) DIRECTIONS (6-10) Study the following information carefully to answer the given questions. [05 MARKS]

A, B, C, D, E, F, G and H are seated in straight line facing North. C sits fourth to left of G. D sits second to right of G. Only two people sit between D and A. B and F are immediate neighbors of each other. B is not an immediate neighbor of A. H is not an immediate neighbor of D.

6 Who sits exactly in the middle of the persons who sit fifth from the left and the person who sits sixth from the right?

7 Who am sits third to the right of C?

8 Which of the following represents persons seated at the two extreme ends of the line?
(a) C, D (c) B, G
(b) A, B (d) D, H

9 What is the position of H with respect to F?
(a) Third to the left (b) Immediate right
(c) Second to right (d) Fourth to left

10 How many persons are seated between A and E?

Q-4 Directions for Questions (1 to 5) Below in each question are given two Statements (1) and (2). [10Marks]

These Statements may be either independent causes or may be effects of independent causes, or of a common cause. One of these Statements may be the effect of the other Statement. Read both the Statements and then decide which of the following answer choices correctly depicts the relationship between these two Statements.

Choose the answers from the following options also provide appropriate reasons of it!

(1) If Statement (1) is the cause and Statement (2) is its effect
(2) If Statement (2) is the cause and Statement (1) is its effect
(3) If both Statements (1) and (2) are independent causes
(4) If both Statements (1) and (2) are effect of independent causes
(5) If both Statements (1) and (2) are effects of some common cause

Q1.

Statements:

I. The life today is too fast, demanding and full of variety in all aspects which at times leads to stressful situations.

II. Number of suicide cases among teenagers is on increase.

Statements:

Q2.

Statements:

- I. The government has recently fixed the fees for professional courses offered by the unaided institutions which are much lower than the fees charged last year.
- II. The parents of the aspiring students launched a severe agitation last year protesting against the high fees charged by the unaided institutions.

Q3.

Statements:

- I. There is sharp decline in the production of oil seeds this year.
- II. The Government has decided to increase the import quantum of edible oil.

Q4.

Statements:

- I. It is the aim of the city's civic authority to get the air pollution reduced by 20% in the next two months.
- II. The number of asthma cases in the city is constantly increasing.

Q5.

Statements:

- I. Most of the steel producing companies in the country have made considerable profit during the last financial year.
- II. Many Asian countries have been importing huge quantities of steel from India

OR

Direction: Statements and Arguments Each question below is followed by two arguments numbered I and II. You have to decide which of the arguments is a 'strong' argument and which is a 'weak' argument.

Choose the answers from the following options **also provide appropriate reasons** of it!

[10MARKS]

- (a) if only argument I is strong.
- (b) if only argument II is strong.
- (c) if neither argument I nor II is strong.
- (d) if both argument I and II are strong

1. Statement: Should young entrepreneurs be encouraged?

Arguments:

- I. Yes. They will help in industrial development of the country.
- II. Yes. They will reduce the burden on employment market.

2. Statement: Should Indian scientists working abroad be called back to India?

Arguments:

- I. Yes. They must serve the motherland first and forget about discoveries, honors, facilities and all.
- II. No. We have enough talent; let them stay where they want.

3 Statement: Can pollution be controlled?

Arguments:

- I. Yes. If everyone realizes the hazards it may create and cooperates to get rid of it, pollution may be controlled.
- II. No. The crowded highways, factories and industries and an ever-growing population eager to acquire more and more land for constructing houses are beyond control.

4. Statement: Should the railways in India be privatized in a phased manner like other public sector enterprises?

Arguments:

- I. Yes. This is the only way to bring in competitiveness and provide better services to the public.
- II. No. This will pose a threat to the national security of our country as multinationals will enter into the fray.

5. Statement: Should India encourage exports, when most things are insufficient for internal use itself?

Arguments:

- I. Yes. We have to earn foreign exchange to pay for our imports.
- II. No. Even selective encouragement would lead to shortages.

Q-5 Attempt any ten out of twelve.

[10 MARKS]

- 1 The best evidence of India's glorious past is the growing popularity of Ayurvedic medicines in West.
 - A. Only I is implicit
 - B. Only II is implicit
 - C. Either I and II are implicit
 - D. Both I and II are implicit
 - E. Neither I nor II is implicit
- 2 In the following question select the one which is different from the other three responses.

(a) DEB	(c) HIF
(b) RTP	(d) NOL
- 3 Disease: Pathology:: Planet: ?

(a) Astrology	(c) Astronomy
(b) Geology	(d) Paleontology
- 4 Major: Battalion: Colonel: ?

(a) Company	(c) Army
(b) Regiment	(d) Soothers
- 5 10 Four of the following five are alike in a certain way and so form a group. which one does not belong to that group?

(a) Meter	(d) Mile
(b) Furlong	(e) Acre
(c) Yard	

6 You are head of your office. Some media people come to your office and request you to brief them about the pension plan of your office. You will
(a) ask the media people to come some another day.
(b) immediately accept the offer and brief them.
(c) get them turned out of your office.
(d) ask them to wait and to consult the officials concerned

7 If you find yourself in a situation where you are required to make a power point presentation and you are already bogged down by too much work, as the manager what would you do?
(a) Take an alternative mode of presentation.
(b) Cancel the seminar and reschedule according to your convenience.
(c) Pass the buck to your subordinate, you are the boss, on one can question you.
(d) Prioritise your work and try to squeeze out time for it.

8 There are five friends-Sachin, Kunal, Mohit, Amit and Sohan. Sachin is shorter than Kunal, but taller than Sohan. Mohit is the tallest. Amit is little shorter than Kunal and little taller than Sachin. If they stand in the order of increasing heights, who will be the third?
(a) Amit (c) Mohit
(b) Sachin (d) Kunal

9 Lakshmi is elder than Meenu. Leela is elder than Meenu but younger than Lakshmi. Latha is younger than both Meenu and Hari but Hari is younger than Meenu. Who is the youngest?
(a) Lakshmi (c) Meenu
(b) Latha (d) Leela

10 Tina drives 45 kms towards East, turns right and drives 65 kms, then turns left and drives 33 kms. In which direction is she facing now?
(a) East (c) North
(b) West (d) South

11 You are suffering from diabetes. When you see a whole lot of chocolates, you are tempted to eat them but you also realise that they are not good for you in the long run. What do you do?
(a) You would not eat them because you know the harmful effects.
(b) You decide not to eat them but keep thinking about them.
(c) You would eat them but feel guilty about what you have done.
(d) You would give in to the temptation and eat the chocolates without being bothered about the consequences

12 Choose the word which is least like the others word in a group?
a) Zinc (c) Mercury
b) Aluminum (d) Copper

***** END OF PAPER *****