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NMAT LOGICAL REASONING 2007
QUESTION PAPER

SECTION-C

Directions for question 1-4: In each question given below is a statement of two assumptions numbered I and II.

An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is/are implicit in the statement.

- (A) if assumptions I is implicit,
- (B) if assumptions II is implicit,
- (C) if neither I or II is implicit, and
- (D) if both I or II are implicit

1. **Statement :** Of all the newspaper published in Mumbai, readership of the “Times” is the largest in the Metropolis.

Assumptions : (I) Times is not popular in non-urban areas

(II) Times has the popular feature of cartoons on burning social and political issues.

2. **Statement :** If any time you have financial difficulty, come to me : I will help you out.

Assumptions : (I) You have financial difficulties

(II) I promise to provide you financial help

3. **Statement :** The entire north India, including Delhi and the neighbouring states remained ‘Powerless’ the whole day of 19th December 97 as the northern grid supplying electricity to the seven states collapsed earlier

Assumptions : (I) The northern grid system of provided electricity to a group of states is an ineffective type of power supply system.

4. **Statement :** Among all the articles, the prices of personal computers show the highest decline from June 1998.

Assumptions : (I) Comparative prices of all articles in June and December 1997 were available in January 1998.

(II) Prices of personal computer were higher in the first six months than in the last six months of 1997.

Directions for question 5-7: In each question below are given two statement followed by two conclusions - I and II. You have to taken the given Statement to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows, from the two statement, disregarding commonly known facts.

Given answer :

- (A) if only conclusion I follows
- (B) if only conclusion II follows
- (C) if either I or II follows
- (D) if either I nor II follows

5. **Statements :** Some nurses are nuns. Maya ia a nun.

Conclusions : I. Some nuns are nurses.

II. Some nurses are not nuns.

6. **Staements :** All apples are oranjes. Some oranje are apples

Conclusions : I. Some apples are papayas

II. Some papayas are apples

7. **Statements :** On Dec. 15, there was a big cyclone near Vaizag on the east coast of India.

On 16th December, the local police gave a statement that a band of fishermen

Conclusions : I. the entire band of fishermen must have been drowned in the high seas

II. some of the fishermen from that band may survive

8. What would be the serial number of the word MOTHER in a dicionary consisting of words formed by letter in MOTHER arranged in an alphabetical order?

- (A) 307
- (B) 308
- (C) 309
- (D) 312

Directions for question 9-10: In the following questions, two statements followed by two inferences.

Mark your answer as:-

- A. If only inference I follows
- B. If only inference II follows
- C. If both of them follow
- D. If neither of them follows

9. All Peter are Piper. Some Pickle are Piper

- I. Some Peter are Pickle
- II. Some Pickle are Peter

10. All boats are ships. Some ships are jinxed vessels

- I. Some boats could be jinxed vessels
- II. Some jinxed vessels could be ships but not boats

Directions for question 11-15: In a language, words are made with only three letters A, B, and C. The words follow a fixed sequence.

- (1) If X is a viable words sequence ending with A then a B can be added at the end.
- (2) If CX is a viable words sequence then so is CXX.
- (3) If there are three A's i.e. AAA then the so is CXX.
- (4) If there are two B's i.e. BB then the trio can be dropped altogether. It is known that CA is viable words.

Example : To obtain CBAAB from CA, the minimum number of steps is :

Steps 1: CA

Steps 2: CAA

Steps 3: CAAA

Steps 4: CBA

Steps 5: CBAB

Steps 6: CBABAB

Steps 7: CBAAB

In one step only operation can be carried out.

11. What is the minimum number of steps required to obtain CBBAA from CA?

(A) 5

(B) 6

(C) 7

(D) 8

12. What is the minimum number of steps required to obtain CBBAA from CA?

(A) 8

(B) 9

(C) 10

(D) 11

13. What is the minimum number of steps required to obtain BC from CA?

(A) 3

(B) 5

(C) 6

(D) not possible

14. Starting from CBAB, what is the minimum number of steps required to obtain CBBAB?

(A) 4

(B) 5

(C) 6

(D) 7

15. How many steps are required to get CABAB from CA?

(A) 3

(B) 4

(C) 5

(D) 6

Directions for question 16-19: Answer the question on the basis of information given below. Six nurses Agnes Bethy, Chandrika, Divya, Evita and Faria are working for Marium hospital, which requires three nurses pre day. The availability of various nurses on various days of the week is as follows.

(1) Agnes and Bethy will not work together and both of them will not be available on Mondays and Thursdays.

(2) Chandrika is a dedicated nurse and works 7 days a week.

(3) Divya is married and will not be available on 7 days weekends.

(4) Evita and Faria will always work together, if possible and one of them will have her off on Monday and the other on Wednesday.

(5) Any triplet cannot be repeated on two consecutive days.

16. Who will be working on any Monday?

(A) Chandrika, Divya, Evita

(B) Chandrika, Evita and Fanna

(C) Chandrika, Divya, Faria

(D) either 'a' or 'c'

17. If Agnes, Chandrika and Divya work on Friday then who will be working on Saturday?

(A) Agnes, Chandrika, Evita

(B) Bethy, Divya, Faria

(C) Chandrika, Evita, Faria

(D) Chandrika, Bethy, Faria

18. If Evita is ill, who will be working on Thursday?

(A) Chandrika, Divya, Faria

(B) Chandrika, Divya, Bethy

(C) Divya, Faria, Agnes

(D) Chandrika, Bethy, Faria

19. If Chandrika decides to take off on Wednesday, then who essentially works on Wednesday?

(A) Divya

(B) Evita

(C) Faria

(D) Both (B) & (C)

Directions for question 120-124: Answer the question on the basis of information given below.

Six persons A, B, C, D, E and F are photographer, engineer, lawyer, housewife, waiter and journalist, not necessarily in that order. There are two married couples in the group who stay together

(1) A is married and his wife is a housewife.

(2) B, the lawyer is married to the photographer sister of A.

(3) D is the brother of C, who is not the housewife.

(4) E, the journalist has taken a vow of never getting married.

(5) The waiter is engaged to his girlfriend.

20. Who is the wife of B?

(A) E

(B) F

(C) D

(D) C

21. Who is the wife of A?

(A) C

(B) D

(C) E

(D) F

22. Who is the engineer?

- (A) D
- (B) C
- (C) A
- (D) F

23. Who is the waiter?

- (A) F
- (B) C
- (C) E
- (D) D

24. Which four people stay together?

- (A) A, B, C, F
- (B) B, C, D, E
- (C) A, C, D, E
- (D) C, D, E, F

Directions for question 25-28: From the data about a race given below, find the sequence of the participants and answer the following questions.

Archana, Bhavana, Chitra, Dolly, Esha, Farhein, Gauri, Hema, and Lva participated in a 100-m race. Gauri finishes the race immediately after Chitra, who finished before Bhavana. Bhavana touches the finishing line just when Lva was not the last person to finish the race. Esha finishes the race before Archana can.

25. If Chitra stood 2nd in the race who came last?

- (A) Archana
- (B) Lva
- (C) Hema
- (D) any these

26. If Dolly stood 3rd in the race who stood in 6th position?

- (A) Archana
- (B) Lva
- (C) Hema
- (D) indeterminable

27. If Lva didn't finish last, Bhavana finishes immediately after (refer to Q 133)?

- (A) Dolly
- (B) Farhein
- (C) Hema
- (D) either (A) or (B)

28. Who is the last girl to finished the race if Esha ranked 3rd & Farhein 4 th?

- (A) Lva
- (B) Archana
- (C) Hema
- (D) either (A) or (B)

Directions for question 29-33: From a group of six boys M, N, O, P, Q, R and five girls G, H, I, J, K, a team of six to be selected. Some of the criteria of selection are as follows:

M and I go together

O cannot be replaced with N

I cannot go with J

P and Q have to be together

K and R go together

Unless otherwise stated, these criteria are applicable to all following question

29. If the team consists of two girls and I is one of them, the other members are:

- (A) HNOPQ

(B) KOPQR

(C) KRMNP

(D) GMRPQ

30. If both K and P are member of them and three boys in all are include in the team, the members of the team other than K and P are:

(A) GJRM

(B) HIRQ

(C) OIRQ

(D) IJRQ

31. If the team has four boys including O and R, the members of team other than O and R are:

(A) GJMP

(B) GJPQ

(C) HIPQ

(D) GK PQ

32. If the team has three girls including J and K, the members of team other than J and K are:

(A) MORG

(B) NHOR

(C) MNOG

(D) GHNR

33. If four members are boys, which one of the following cannot constitute the team?

(A) HJMNPQ

(B) GJMOPQ

(C) JKMNOR

(D) JKMPQR

34. A man pointing to a photograph says, "The lady in the photograph is my nephew's maternal grandmother. How is the lady in the photograph related to his sister who has on other than J and K are:

- (A) Mother
- (B) Mother-in-law
- (C) cousin
- (D) sister-in-law

35. If CONCEPT is written as 'u n m u l q r' and FRIEND is written as 'y s g l m t' how is PREDICT written in that code?

- (A) q s l t g u r
- (B) q g m n l t r
- (C) s l m g t u r
- (D) u s y g m n l

36. If BELIEF is written as 'a f k k d i' how is SELDOM written as 'y s g l m t' how is PREDICT written in that code?

- (A) r d k c n l
- (B) t f k e n p
- (C) r f k e n n
- (D) r f k f n p

37. If 'CONTRIBUTE' is written as 'E T B U I R N T O C'. Which letter will be in the sixth place when counted from the left if "POPULARISE" is written in that order?

- (A) R
- (B) i
- (C) A
- (D) L

38. If "COAT" is coded as "ABMNYZRS" then ' REST' will be coded as

(A) PQCDQRRS

(B) PQRSCDQR

(C) PQQRCDRS

(D) PQQRRSCD

39. If "CHEATING" is coded as "TEACHING" then "CIRCULAR" will be coded as

(A) UCRICLCAR

(B) UCIRCLAR

(C) UKIRCLAR

(D) UCRICLAR

40. If "CARTOON" is coded as 4286335, Then "ARCOT" will be coded

(A) 28346

(B) 28643

(C) 28436

(D) 28364

Directions for question 41-44: Consider the given statement and choose:

(A) if only assumption X is implicit

(B) if only assumption Y is implicit

(C) if both X and Y are implicit; and

(D) if neither X nor Y is implicit

41. Statement: Man is born free.

Assumptions: X. Freedom is the birthright of man

Y. All human have human right

42. Laugh and the world will laugh at you.

Assumptions: X. People generally laugh

Y. Laughter symbolises happiness.

43. Statement: There is no need to open a school here.

Assumptions: X. Children in this area do not study

Y. There are already many schools in this area.

44. Statement: Owing to stress and fast pace of life your digestive system is attacked.

Assumptions: X. There is stress in life.

Y. Digestive system has no defence.

Directions for question 45-48: In each of the following question two statements are followed by two possible inferences. Assume the statement to be true, even if they appear opposed to common sense or observation.

Choose: (A) for your answer if only inference I follows

(B) for your answer if only inference II follows

(C) for your answer if both I and II follow

(D) for your answer if both neither I nor II follow

45. All cats are dogs. Some dogs are rats.

(I) Some rats are dogs.

(II) Some dogs are rats.

46. Some books are hooks. No book is a screw.

(I) Some screws are not hooks.

(II) Some hooks are screws.

47. No flower is a plant. No plant is a tree.

(I) No tree is a flower

(II) No flower is tree.

48. All horses are donkeys. All donkeys are monkeys.

(I) All horses are monkeys.

(II) All monkeys are horses.

Directions for question 49-50: For each the following question marks the appropriate choice.

49. Amit can set question for MBA exams because he has experience to set for Bank exams. This statement is based on the assumption that

- (A) The question of Bank exams are harder than that of MBA exams.
- (B) Both exams are conducted by the same board.
- (C) Those who can set question for Bank exams can set questions for MBA exams also.
- (D) Number of paper asked in both exams are same.

50. My TV has an electronic child lock with an optional pass-ward and cannot be oppend in my absence. It therefore follows.

- (A) My TV has been misused before these lock facilities.
- (B) Electronic child lock with a provision to alter password is an effective security device.
- (C) Children used to watch vulgar shows in the absence guardians.
- (D) All TVs without this special facility can be opened.

ANSWER

1.	(C)	11.	(B)	21.	(D)	31.	(D)	41.	(D)
2.	(B)	12.	(B)	22.	(C)	32.	(A)	42.	(D)
3.	(A)	13.	(D)	23.	(D)	33.	(C)	43.	(D)
4.	(D)	14.	(C)	24.	(A)	34.	(A)	44.	(A)
5.	(D)	15.	(A)	25.	(D)	35.	(A)	45.	(C)
6.	(A)	16.	(D)	26.	(D)	36.	(D)	46.	(D)
7.	(A)	17.	(C)	27.	(D)	37.	(D)	47.	(D)
8.	(C)	18.	(A)	28.	(D)	38.	(A)	48.	(A)
9.	(D)	19.	(D)	29.	(B)	39.	(D)	49.	(C)
10.	(C)	20.	(D)	30.	(C)	40.	(C)	50.	(B)