

JMET – 2008

Question Paper Code – C

SECTION – 2
LOGICAL REASONING (Questions 31 – 60)

31. A man X started his walk from location P and later arrived at location R and at the same time another person Y arrived at the location R, completing his walk from location Q. If both X and Y walked without stopping, who walked at a faster average speed if
1. Y started walking 15 minutes after X.
 2. The distance from Q to R is less than the distance between P and R.
- (A) Statement 1 and 2 are both required to answer the question.
(B) Not enough facts are given to answer the question.
 (C) Statement 1 alone is sufficient to answer the question but statement 2 alone is not sufficient.
 (D) Statement 1 contradicts statement 2.

Direction for Questions 32 and 33: Read the following passage and answer the questions.

Though persons of any age can have cancer, recent research has shown that eating fiber rich diet may reduce risk of some types of cancer. Modern life style has resulted in increased consumption of junk food that is low in fiber. We should fortify junk food with fiber.

32. "NO JUNK FOOD NO CANCER"!
- (A) The statement cannot be logically inferred from the passage.**
 (B) The statement is a logical inference from the passage above.
 (C) The passage has contradicting statements.
 (D) None of the above.
33. I. Cancer is a modern disease. X
 II: Modern life style and eating habits may have increased risk of cancer.
- (A) Both I and II can be logically inferred from the above passage.
 (B) Neither I nor II can be logically inferred from the above passage.
 (C) Only I can be logically inferred from the above passage.
(D) Only II can be logically inferred from the above passage.

Direction for Questions 34 - 36 The sentences given below when properly sequenced form a coherent paragraph. Each sentence is numbered. Select the most logical order of the sentences.

34. (i) The energy task force that met here on Saturday is reported to have taken the decision for re-tendering the two projects.
 (ii) The lowest tariff quoted by the firm for Kacahan project was Rs. 2.83 per unit and for Bara Rs. 2.88 per unit.
 (iii) Global tenders for the two projects were invited in January 2008.
 (iv) This bid was set aside by cabinet decision on grounds that tariff was too high.
(A) (i)-(iii)-(ii)-(iv) (B) (i)-(ii)-(iii)-(iv) (C) (i)-(iii)-(iv)-(ii) (D) (iii)-(ii)-(iv)-(i)
35. (i) Heidi Klum says that deep love keeps her marriage to Seal strong.
 (ii) The 34-year old beauty also said that she considered Seal to be Leni's (her daughter from her previous marriage) real father.
 (iii) Heidi Klum concluded by saying, "I feel lucky that I have found Seal. He is my best friend."
 (iv) The super model who married the *Kiss from Rose* singer three years ago, stressed the importance of love and believes that it is vital for happy relationship.
 (A) (i)-(iii)-(ii)-(iv) **(B) (i)-(ii)-(iv)-(iii)** (C) (iii)-(i)-(ii)-(iv) (D) (iv)-(ii)-(i)-(iii)

- Q.36 (i) It is a record and particularly an interesting record that beats the year 1957 which was the year of the baby boom.
- (ii) More babies were born in USA last year than in any other year in the history.
- (iii) 4,315,000 babies were born in USA last year.
- (iv) This baby boom is in contradiction to the recent US economy trend that is manifested in soaring gas prices, rising inflation and cost of living.
- (A) (i)-(ii)-(iii)-(iv) (B) (ii)-(iv)-(iii)-(i) **(C) (i)-(iii)-(i)-(iv)** (D) (iii)-(i)-(iv)-(ii)
37. Manisha will eat the orange if Rajesh does not cook.
Based on the information above which of the following must be true
- (A) Manisha will not eat the orange if Rajesh cooks.
- (B) If Manisha** did not eat the orange, then Rajesh did cook.
- (C) If Manisha ate the orange then Rajesh did not cook.
- (D) If Rajesh does not cook, Manisha will eat the orange.
38. Judging from the message being conveyed and the apparent authoritativeness of their sources, which of the following is the most reasonable and trust worthy statement.
- (A) `FILM CRITIC: Internet, web blogs, chats, email etc. have all made children isolate themselves and become less social.
- (B) RTI OFFICER IN CHARGE:** We have already started collecting data on the number of students who applied, who qualified and finally joined in the last four years.
- (C) EDUCATION CORRESPONDENT: According to a mother, winter uniform for girls should be changed to pants from skirt in the northern part of the country.
- (D) RAILWAY OFFICER: Traveling in planes is very expensive, inconvenient and time consuming. These are some of the reasons why more people travel by train and the rail-road network is well developed in our country.
- 39 Look at the sentences given below
- (i) If the contract is valid, then X is liable.
- (ii) If X is liable, he will be bankrupt.
- (iii) If the bank loans him money, he will not go bankrupt.
- Select the statement that is consistent with the above statements
- (A) The contract is valid and the bank will loan him money.
- (B) The** contract is valid and the bank will not loan him money.
- (C) The contract is not valid and he will go bankrupt.
- (D) The contract is not valid and he is liable.
40. Four pairs of numbers are given below of which the last number is missing. In all pairs, the number on the left has a certain relationship with the number on the right. Select the option that has the same relationship with the given number.
- 4:8; 6:10; 12:14; 18:20
- (A) 20** (B) 30 (C) 42 (D) 60

Direction for Questions 41 and 42: Consider statements (i) - (iv)

- (i) : X was born before Y.
- (ii) : Y was born in the sixteenth century.
- (iii) : Z was born before A.
- (iv) : B was a compatriot of X.

S : If either B was a compatriot of X or Z was born before A, then Y was born in the sixteenth century

41. To make sentence S true,
(A) (ii), (iii) and (iv) should be false.
(B) (iii) and (iv) should be true and (ii) should be false.
(C) (iii) should be true and (ii) and (iv) should be false.
(D) (i), (ii), (iii) and (iv) should be true.
42. To make sentence S false,
(A) (ii), (iii) and (iv) should be true.
(B) (iii) or (iv) should be true and (ii) should be false.
(C) (iii) and (iv) should be true and (ii) should be false.
(D) (iii) and (iv) should be false and (ii) should be true.

Direction for Questions 43 and 44 : A statement and two actions are given. Action is a step to be taken for improvement or follow up in regard to the problem mentioned in the statement. On the basis of the information given in the statement and assuming that the statement is true, decide which of the given action logically follows.

43. **Statement :** The Government of Rajasthan, in a report, revealed that due to social disturbances and bomb blasts in Jaipur, the number of foreign tourists has decreased considerably, resulting in a loss of Rs. 200 crores.
Actions:
(I) Government should provide financial support to the tourism sector.
(II) Foreign tourists should be advised to visit the country at their risk.
(A) Only I follows.
(B) Only II follows.
(C) Either I or II follows.
(D) Neither I nor II follows.
44. **Statement :** The Indian textile industry venturing into the Western European market faces tough competition from China.
Actions:
I India should search for other international markets for its textile products. II India should improve the quality and reduce costs to compete with China in capturing the market.
(A) Only I follows.
(B) Only II follows.
(C) Both I and II follow.
(D) Neither I nor II follows.
45. A jury reaches a verdict when all of its members come to a unanimous agreement. In one recent well publicized trial, the judge thought that the jury had reached a verdict. Eventually it was learnt that one juror did not agree with the others. The proceedings were ultimately declared a mistrial by the judge. Based only on the above information, which of the following statement is a valid conclusion.
(A) The jury never actually reached a verdict.
(B) The jury reached a verdict but had been disrupted by a single juror.
(C) There have been other trials where the jury failed to reach a verdict.
(D) Only trials in which the jury fails to reach a verdict are declared mistrials.

46. Since all peacocks that I have seen on academic campuses have been greenish blue, it follows that peacocks that I will see in the zoo will also be greenish blue.
Which of the following most closely parallels the reasoning of the preceding argument?
(A) All peacocks are greenish blue.
(B) Every apple that I have eaten has been sweet; so a fruit that is sweet must be an apple.
(C) Since no cold medicine has ever helped me, this home remedy will probably not work either.
(D) Since no tutor has helped me improve my guitar playing skills, the new tutor will probably not help either.
47. It is known that at the university, 60% of the students play tennis, 50% of them play bridge, 70% jog, 20% play tennis and bridge, 30% play tennis and jog, and 40% play bridge and jog. If someone claimed that 20% students play bridge, jog and play tennis,
(A) The person is telling the truth.
(B) Students who do all three activities are more than 20%.
(C) Students who do all three activities are less than 20%.
(D) There are no students who do all three activities.
48. Three married couples on a journey come to a river where they find a boat that cannot carry more than two persons at a time. An additional condition is that a lady cannot be left on either bank where other men are present, without her husband.
(A) These people will not be able to cross the river.
(B) They will be able to cross the river in 9 steps.
(C) They will be able to cross the river in 10 steps.
(D) They will be able to cross the river in 13 steps

Direction for Questions 49 and 50 : There are statements followed by four conclusions numbered I, II, III, IV. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusion logically follows from the given statements.

49. **Statements**
(i) All Roses are flowers.
(ii) Some flowers are Vegetables.
Conclusions:
I. Some Vegetables are Roses.
II. All Vegetables are Roses.
III. Some Roses are Vegetables.
IV. All Roses are Vegetables.
(A) All conclusions follow.
(B) Only I and II follow.
(C) None of the conclusions follow.
(D) Only II and III follow.
50. **Statements:**
(i) Some Players are Athletes.
(ii) All Athletes are Humans.
(iii) No Human is an Ant.
Conclusions:
I. Some Players are not Ants.
II. Some Humans are Players.
III. No Athlete is an Ant.

IV. Some Ants are not Athletes.

- (A) I, II and III follow.
- (B) II, III and IV follow.
- (C) I, II and IV follow.
- (D) All follow.

Direction for Question 51: A statement followed by three assumptions numbered I, II and III are given. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumption is implicit in the statement, then decide which of the answers (A), (B), (C), or (D) is correct.

51. **Statement :** As our business is expanding we need to appoint more managers - says Mr. Adam', owner of Crayon Limited.

Assumptions :

- I. The present managers are not competent.
- II. More staff will further expand the business.'
- III. Suitable persons to be taken as managers will be available.

- (A) Only I is implicit
- (B) Only II is implicit
- (C) Only III is implicit
- (D) None is implicit

52. Consider the following set of three statements:

- (i) There are three statements in this set.
- (ii) Two of them are not true.
- (iii) Your IQ score will go up by 20 if you learn to play game Z.

For these three statements to be consistent:

- (A) Only statements (ii) and (iii) must be true.
- (B) Statement (iii) may be either true or false
- (C) Statements (ii) and (iii) must be false.
- (D) Statement (iii) must be false.

Direction for Questions 53 – 57: Please read the following statements and answer the questions.

There are five friends Amisha, Binaya, Celina, Daisy and Eshaan. Two of them play table tennis while the other three play different games, viz. football cricket and, chess. One table tennis player and the chess player stay on the same floor while other three stay on the same floor while other three stay on floors 2, 4, and 5. Two of the players are industrialists while the other three belong to different occupations viz. teaching, medicine and engineering. The chess player is the oldest while one of the table tennis players, who plays at the national level; is the youngest The other table tennis player who plays at the regional level is between the football player and the chess player in age. Daisy is a regional player and stays on floor 2. Binaya is an engineer while Amisha is the industrialist and plays tennis at the national level.

53. Who stays on floor 4?

- (A) Amisha
- (B) Binaya
- (C) Celina
- (D) Eshaan

54. What does Eshaan play?

- (A) Chess
- (B) Football
- (C) Cricket
- (D) Table tennis at regional level

55. Age wise, who among the following lies between Daisy and Eshaan?
(A) Teacher (B) Industrialist (C) Engineer (D) Doctor
56. Who all stay on floor 3?
(A) Amisha and Binaya (B) Daisy and Eshaan (C) Binaya and Daisy (D) Celina and Daisy
57. What is the occupation of the chess player?
(A) Engineer (B) Industrialist (C) Doctor (D) Teacher

Direction for Questions 58 - 60 : Read the following passage carefully and answer the questions that follow:
Five flags, each with a distinct symbol namely Panther, Tiger, Rose, Swan and Quail, have been arranged in the following order:

- (i) Panther is next to Quail and Swan is next to Rose.
(ii) Swan is not next to Tiger, Tiger is on the extreme left hand side and Rose is on the second position from the right hand side.
(iii) Panther is on the right hand side of Quail and to the right side of Tiger.
(iv) Panther and Rose are together.
58. Which of the following statement is true?
(A) (iii) and (iv) are contradicting
(B) Either (iii) or (iv) is redundant
(C) (iii) is redundant
(D) (iv) is redundant
59. is on the extreme right and is on the extreme left.
(A) Tiger & Rose
(B) Quail & Tiger
(C) Swan & Tiger
(D) Tiger & Swan
60. is in the middle and is on its right.
(A) Panther & Swan
(B) Rose & Swan
(C) Panther & Rose
(D) Quail & Panther