

JMET PAPER: (12-12-2010)

LOGICAL REASONING

SECTION - 2

Directions for Question 31: There are four statements followed by four conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts, and decide which of the given conclusions logically follows from the given statements.

Q.31 Statements:

- i. All cricketers are football players.
- ii. Some hockey players are cricketers.
- iii. No football player is a basketball player.
- iv. No basketball player is a hockey player.



Conclusions:

- I. Some hockey players are football players.
- II. No basketball player is a cricketer.
- III. Some hockey players are basketball players.
- IV. Some football players are cricketers.

- (A) I only (B) I, II & IV only (C) I & IV only (D) I & II only

Directions for Questions 32-35: Read the following information and answer the questions. The owner of the house has been murdered. The visitors to the house were Aditya, Vijay and Puneet. The following additional information is also given.

1. The murderer who was one of the three visitors, arrived at the house later than at least one of the other two visitors.
2. The driver of the house who was one of the three visitors, arrived at the house earlier than at least one of the two visitors.
3. The driver arrived at the house at midnight.
4. Neither Aditya nor Vijay arrived at the house after midnight.
5. Between Vijay and Puneet, the one who arrived earlier was not the driver.
6. Between Aditya and Puneet, the one who arrived later was not the murderer.

Vijay
Adi - d - 12
Puneet -

Q.32 Who arrived at the house earliest?
(A) Puneet (B) Aditya (C) Vijay (D) Data insufficient

Q.33 Who is the murderer?
(A) Puneet (B) Aditya (C) Vijay (D) Data insufficient

Q.34 Who is the driver?
(A) Puneet (B) Vijay (C) Aditya (D) Data insufficient

Q.35 Who arrived at the house last?
(A) Puneet (B) Aditya (C) Vijay (D) Data insufficient

Directions for Questions 36-39: Read the following information and answer the questions.

An ice-cream maker is experimenting with six chemical essences, U, V, W, X, Y and Z for developing a new flavour called "SWEETER & HEALTHIER". The details of these chemical essences are as follows:

1. U is sweeter than V and healthier than Z.
2. V is sweeter than Y and less healthy than Z.
3. W is less sweet than X and less healthy than U.
4. X is less sweet and healthier than Y.
5. Y is less sweet and healthier than U.
6. Z is sweeter than U and less healthy than W.

U Sweet Z > U > V > Y > X
 V Health U > W > Z > V
 W
 X
 Y
 Z

- Q.36 Which is the sweetest essence?
 (A) U (B) W (C) X (D) Z
- Q.37 Which of the following essences is/are both sweeter and healthier than V?
 (A) U only (B) W only (C) Z only (D) U & Z only
- Q.38 Which of the following essences is/are sweeter than Y and healthier than W?
 (A) U only (B) V only (C) Z only (D) U & V only
- Q.39 Which is the least healthy essence?
 (A) U (B) V (C) W (D) Y

Directions for Questions 40-43: Read the following information and answer the questions.

Every morning five friends Mahima, Nimisha, Omez, Parul and Quan go to the railway station and board a train that stops at six subsequent stations which are numbered 1 to 6. The train stops at Station 1 and proceeds in numerical order to Station 6.

1. Mahima gets off either at Station 1 or at Station 2.
2. Omez always gets off one station before or one station after Quan's station.
3. Parul always gets off at Station 3.
4. Quan always gets off at Station 4, 5 or 6.
5. No one re-boards the morning train after getting off.

- Q.40 On a morning, when no one gets off at Station 5 or 6, which of the following MUST be true?
 (A) Mahima gets off at Station 2
 (B) Nimisha gets off at Station 2
 (C) Omez gets off at Station 4
 (D) Omez and Parul get off at the same station.
- Q.41 On a morning, when Quan gets off at Station 4 and no more than two of the friends get off at any one station, which of the following MUST be true?
 (A) If Nimisha gets off at Station 2, Mahima gets off at Station 1.
 (B) If Nimisha gets off at Station 3, Omez gets off at Station 5.
 (C) If Nimisha gets off at Station 4, Omez gets off at Station 5.
 (D) If Omez gets off at Station 3, Nimisha gets off at Station 2.
- Q.42 At which amongst the following stations is it possible for Nimisha and Omez to be the only friends getting off the morning train?
 I. Station 3
 II. Station 4
 III. Station 5
 (A) I only (B) II and III only (C) III only (D) I and II only

- Q.43 On a morning, when no one gets off at Station 1 and each of the five friends gets off at a different station, which of the following cannot be true?
- (A) Nimisha gets off one station before Quan
 (B) Parul gets off one station before Omez.
 (C) Mahima gets off at Station 2.
 (D) Nimisha gets off at Station 5.

Directions for Questions 44-45: Read the following information and answer the questions.

There are five teams – Paraguay, Qatar, Russia, Spain and Turkey playing in a tournament where each team plays against every other team only once. These are the following possibilities: each match can result in a draw where each team scores two points; or a team can win where it scores three points, while the losing team scores one point.

- Q.44 If Paraguay has won all the matches and Turkey has lost all the matches and all the remaining three teams score equal points, how many points have each of the three remaining teams scored?
- (A) 5 (B) 7 (C) 8 (D) 6
- Q.45 If all the five teams have an equal score, what is the number of points scored by each team?
- (A) 5 (B) 6 (C) 7 (D) 8

Directions for Questions 46-48: Read the following information and answer the questions.

Four students, Promilla, Qadir, Rita and Sridhar, each working under the guidance of one of the four professors – Anand, Bose, Chandrashekhara, and Deshpande, made their final year MBA project presentations one by one, one each in the area of Finance, Marketing, Systems, and Human Resource Management (HRM). Each professor is an expert in only one of the above areas, and has supervised exactly one of the above students in her/his own area. The following clues are provided.

- The first presentation was made by Rita.
- Prof. Bose works in Finance.
- Prof. Deshpande was Promilla's supervisor.
- The last presentation was in the Systems area.
- Sridhar's project was in HRM area.
- Prof. Bose's student's presentation followed Prof. Chandrashekhara's student's presentation.

- Q.46 In which area was Rita's project?
 (A) Marketing (B) Finance
 (C) Systems (D) Can not be determined
- Q.47 What is Prof. Deshpande's area of expertise?
 (A) Marketing (B) HRM
 (C) Systems (D) Can not be determined
- Q.48 Which student completed her/his project under Prof. Bose's supervision?
 (A) Qadir (B) Rita
 (C) Sridhar (D) Can not be determined

	1	2	3	4
	P	Q	R	S
A				
B				
C				
D				

Directions for Questions 49-50: In the following questions, a statement is given followed by three assumptions: I, II, III. In the context of the questions, an assumption is something to be taken for granted. You have to consider the statement and the assumptions, and decide which of the assumptions is implicit in the statement, then decide which one of the answers is correct.

Q.49 **Statement:** Prakash decided to get his railway reservation done in the month of May for the journey he wants to undertake in July to Mumbai.

Assumptions:

- I. The railways open reservation two months in advance.
- II. There is more than one train to Mumbai.
- III. There will be a vacancy in the desired class.

- (A) II and III (B) I (C) I and II (D) III

Q.50 **Statement:** In a recently held all-India conference, the session on Brand Management in India surprisingly attracted a large number of participants and also received excellent media coverage in the leading newspapers. TCYonline.com

Assumptions:

- I. Nobody expected such an encouraging response to Brand Management.
- II. Brands are not managed properly in India.
- III. The Media is always very positive towards Brands.

- (A) I
 (B) I and II
 (C) I and III
 (D) I, II and III

Directions: Answer Questions 51 to 55 on the basis of the following information.

In a family, Ishita is the granddaughter of Ashima. Deepika is the mother of Hannah. Chetan is the son of Anil. Rohini is the mother of Ishita. Deepika is the sister of Vivek and Chetan. Nilesh has two children, Gauri and Hannah. Elesh is the only grandson in the family. Chetan is not married. Rohini is the daughter-in-law of Anil.

Q.51 Who is married to Rohini?

- (A) Anil (B) Nilesh (C) Chetan (D) Vivek

Q.52 Who is the daughter of Anil?

- (A) Gauri (B) Hannah (C) Ishita (D) Deepika

Q.53 Who is the son-in-law of Ashima?

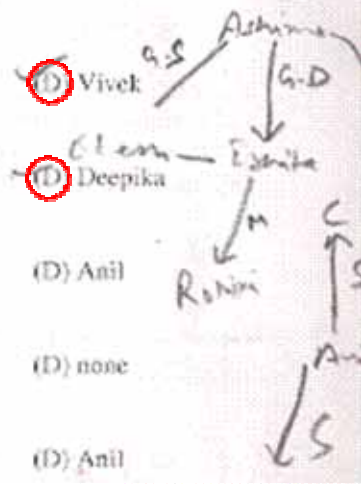
- (A) Elesh (B) Vivek (C) Nilesh (D) Anil

Q.54 How many children does Deepika have?

- (A) one (B) two (C) three (D) none

Q.55 Who is the father of Ishita?

- (A) Nilesh (B) Vivek (C) Elesh (D) Anil



Directions: Answer Questions 56 to 59 on the basis of the following information.

There are five friends, Charlie, John, Bobby, Anderson and David. Each one of them belongs to one of the following nations: the UK, the USA, Australia, France and Spain. Each one plays a different game namely, Football, Cricket, Hockey, Tennis and Polo. Charlie plays neither Tennis nor Polo and belongs either to the UK or Spain. David belongs to the USA and plays Football. John belongs to Australia and plays neither Polo nor Cricket. Anderson plays Hockey and belongs either to France or Spain. Bobby belongs neither to France nor the UK. TCYonline.com

Q.56 To which country does Bobby belong?

- (A) The UK (B) The USA (C) Australia (D) Spain

Q.57 What game does Charlie play?

- (A) Football (B) Cricket (C) Polo (D) Hockey

Q.58 What is the name of John's country and what game does he play?

- (A) The USA, Cricket (B) The UK, Polo
 (C) Australia, Tennis (D) France, Football

Q.59 Which of the following is the correct option?

- (A) Charlie belongs to Spain and does not play Football.
 (B) David belongs to France and plays Football.
 (C) Anderson plays Tennis but does not belong to Australia.
 (D) Bobby plays Polo and belongs to Spain.

3000 + 1500

3000 +

Directions: Answer Question 60 on the basis of the following information.

Q.60 In India, it has been observed that during the post-liberalisation era, R&D intensive firms have attracted more Foreign Direct Investment (FDI).

If the above statement is true, which of the following options can be most logically deduced?

- (A) R&D intensive firms will always get FDI.
 (B) Companies getting FDI will have high R&D.
 (C) Firms investing in R&D have higher chances of getting FDI.
 (D) Firms will get FDI if the economic regime is liberalized.

5000
 2
 50/10/100
 60/60/2