

## BOB MEMORY BASED REASONING

**Directions (1-6):** Study the following information carefully and answer the questions given below:

Eight friends – E, F, G, H, J, K, L and M are sitting around a circular table facing the centre. Each of them is wearing dress of different cartoon characters i.e. Nobita, Oswald, Popeye, Yogi, Simpon, Minion, Scrooge and Dexter but not necessarily in the same order. F is sitting second to the left of K. The one who is wearing dress of Dexter is an immediate neighbour of K. There are only three people sits between the the one who is wearing dress of Dexter and E. Only one person sits between the one who is wearing dress of Yogi and E. The one who is wearing dress of Oswald is to the immediate right of the one who is wearing dress of Yogi. M is second to the right of K. H is wearing dress of Dexter. G and J are immediate neighbours of each other. Neither G nor J is wearing dress of Yogi. The one who is wearing dress of Simpon is to the immediate left of F. The one who is wearing dress of Minion is second to the right of the one who is wearing dress of Oswald. The one who is wearing dress of Scrooge is an immediate neighbour of the one who is wearing dress of Yogi. G is second to the right of the one who is wearing dress of Nobita.

- Who is sitting second to the right of E?  
(a) The one who wearing dress of Minion  
(b) G (c) The one who wearing dress of Yogi  
(d) F (e) K
- Who amongst the following is wearing dress of Scrooge?  
(a) F (b) L (c) M  
(d) K (e)None of these
- Four of the following five are alike in a certain way based on the given arrangement and hence form a group. Which of the following **does not** belong to group?  
(a) Nobita – H (b) M-Popeye (c) J - Yogi  
(d) Simpon – L (e) Minion- K
- What is the position of L with respect to the one who is wearing dress of Dexter?  
(a) Third to the left (b) Second to the right  
(c) Second to the left (d) Third to the right  
(e) Immediate right
- Which of the following statements is true accordingly the given sitting arrangement?  
(a) The one who is wearing dress of Minion sits second to the left of the one who is wearing dress of Popeye  
(b) E is an immediate neighbour of the one who is wearing dress of Simpon  
(c) H sits exactly between F and the one who is wearing dress of Simpon  
(d) Only four people sit between the one who is wearing dress of Oswald and F  
(e) All of the given statements are true
- Who amongst the following is wearing dress of Nobita?  
(a) E (b) L (c) M

(d) K (e)None of these

- Landmark preservation laws unfairly impinge on the freedom of owners to develop their own property as they see fit. In some cases, owners of hotels and office buildings designated as landmarks have been forbidden to make changes in the original facades or interiors, even though they reasonably believe that the changes would enhance the structures and make them more valuable.  
*Which of the following statements, if true, seriously weakens the author's argument?*  
(a) Altering the appearance of a historic structure sometimes does not enhance its beauty or value.  
(b) In traditional legal doctrine, ownership of a property implies the right to alter it at will.  
(c) Only buildings over 75 years old are normally affected by landmark preservation laws.  
(d) Landmark designations must be approved by a local regulatory body before taking effect.  
(e) Historic buildings represent a cultural heritage which the community has a legitimate stake in preserving.
- All the members of the Student Rights Coalition signed the petition calling for a meeting with the university trustees. Philip must be a member of the Student Rights Coalition since his signature appears on the petition.  
*Which of the following best states the central flaw in the reasoning above?*  
(a) Some members of the Student Rights Coalition may not support all of the organization's positions.  
(b) It is possible that Philip's signature on the petition was forged by a member of the Student Rights Coalition.  
(c) Any member of the student body is eligible to sign a petition dealing with university affairs.  
(d) Philip may have resigned from the Student Rights Coalition after signing the petition.  
(e) Some of those who signed the petition may not be members of the Student Rights Coalition.

**Directions (9-13):** Study the following information carefully and answer the given questions. A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input: 42 chair 65 rocket 29 egg 98 still 85 52 holy apple.**  
Step I: apples 42 chair 65 rocket egg 98 still 85 52 holy 28  
Step II: 41 apples 65 rocket egg 98 still 85 52 holy 28 chairs  
Step III: eggs 41 apples 65 rocket 98 still 85 holy 28 chairs 51  
Step IV: 64 eggs 41 apples rocket 98 still 85 28 chairs 51 holys  
Step V: rockets 64 eggs 41 apples 98 still 28 chairs 51 holys 84

Step VI: 97 rockets 64 eggs 41 apples 28 chairs 51 holys 84 stills

**Step VI** is the last step of the above arrangement.

As per the rules followed in the steps given above, find out in each of the following questions the appropriate step for the given input.

**Input: call 85 76 implicit land 59 94 under ape sold 15 90.**

9. In which step are the elements 'apes 94 under sold 90' found in the same order?  
(a) Fifth (b) Seventh (c) Third  
(d) Fourth (e) There is no such step
10. How many steps will be required to complete the above input?  
(a) Eight (b) Six (c) Five  
(d) Seven (e) None of these
11. How many words or numbers are there between 'under' and '84' as they appear in the fifth step of the output?  
(a) Six (b) Three (c) Four  
(d) Five (e) Seven
12. In the third step of the rearrangement, 'land' is related to '85' and 'calls' is related to '14' in a certain way. Which of the following would 'sold' be related to, following the same pattern?  
(a) under (b) apes (c) 90  
(d) 14 (e) 94
13. Which of the following represents the position of '58' in the last but one step?  
(a) Ninth from the right end  
(b) Tenth from the left end  
(c) Seventh from the right end  
(d) Fourth from the left end  
(e) Both (a) and (d)
14. In which of the following expressions, 'A < C' and 'T ≠ U' are definitely true?  
(a)  $T < K > U < A = B \geq C$  (b)  $T > K > U = A < B \leq C$   
(c)  $T = K < U > A > B \leq C$  (d)  $T > K < U = A \leq B \leq C$   
(e) None of these
15. In which of the following expressions 'B < F' is definitely true?  
(a)  $A \leq B \leq C = D \leq E = F \geq G > H$   
(b)  $A \leq B > C = D < E < F \geq G > H$   
(c)  $A \leq B < C = D \leq F < G = H$  (d) All of these  
(e) None of these

**Directions (16-22):** Study the following information carefully and answer the given questions-

Seven friends M,N,O,P,Q,R, and S are selling different number of TV sets on seven different days, from Monday to Sunday of the same week. Each friend has different number of TV sets i.e. 15, 4, 18, 12, 27, 6 and 9, but not necessarily in the same order.

The one who has 15 number of TV sets sells on Saturday. S has 4 number of TV sets and sell TV on Wednesday. N sells TV immediately before Q. N does not sell TV on any of the days after S. The one who has 9 number of TV sets does not sell TV on any of the days on or before Friday. The one who has 18 number of TV sets sells TV immediately after O. Q does not have 27 number of TV sets. The one who has 6 number of TV sets does not sell TV after or before S. R does

not sell TV on Sunday and does not sell 18 number of TV sets. P does not sell TV on any of the days before M.

16. R sells how many number of TV sets ?  
(a) 9 (b) 27 (c) 15  
(d) 4 (e) 12
17. Four of the following five form a group as per the given arrangement. Which of the following does not belong to that group?  
(a) O-Tuesday (b) M-Wednesday  
(c) P-Saturday (d) S-Monday (e) R-Thursday
18. Based on the given arrangement, which of the following is true ?  
(a) M sells TV on Saturday.  
(b) Q has 6 number of TV sets.  
(c) P has 4 number of TV sets.  
(d) R sells TV on Tuesday  
(e) None of these.
19. R sells TV on which day?  
(a) Monday (b) Sunday (c) Saturday  
(d) Wednesday (e) None of these
20. How many number of TV sets M has?  
(a) 15 (b) 4 (c) 27  
(d) 9 (e) None of these
21. On which day of the week Q sells TV?  
(a) Monday (b) Sunday (c) Saturday  
(d) Wednesday (e) None of these
22. How many number of TV sets O has?  
(a) 15 (b) 4 (c) 27  
(d) 9 (e) None of these
23. How many such pairs of letters are there in the word INTERNET each of which has as many letters between them in the word as in the English alphabet?  
(a) None (b) One (c) Two  
(d) Three (e) More than three
24. The percentage of family income spent on entertainment has remained almost the same over the past twenty years - about twelve per cent. When new forms of entertainment become popular, they do not expand this percentage; instead, they take consumer spending away from other forms of entertainment. Therefore, film producers have observed the video boom with concern, knowing that every dollar spent on rental of videos means a dollar less spent on movie theatre admissions. *Which of the following, if true, most forcefully undermines the argument of the passage above?*  
(a) The cost of renting a video is generally substantially less than the price of a movie theatre admission.  
(b) Most film producers receive a portion of the income from the sale of video rights to their movies.  
(c) Fears of some film producers that videos would completely supersede movies have not come to pass.  
(d) Since the start of the video boom, money spent on forms of entertainment other than videos and movies has dropped.  
(e) Some movies that were unprofitable when shown in theatres have become successful when released in video form.
25. Some scientists believe that, in certain species of birds, actual particles of metal within the brain react to the Earth's magnetic field in the same way as the needle in a

compass. It is this mechanism that is thought to underlie the birds' amazing ability to navigate accurately over distances of thousands of miles by day and night during migration. To test this theory, researchers surgically removed the metal particles from the heads of some birds and then released them, along with a number of untreated birds, at the usual time and place of their annual winter migration.

*Which of the following results would most seriously weaken the theory being tested?*

- (a) The untreated birds were confused by the erratic flight patterns of the surgically treated birds and failed to migrate successfully.
- (b) The surgically treated birds were able to follow their usual flight patterns successfully by day, but not by night.
- (c) The surgically treated birds were able to migrate about as accurately as the untreated birds.
- (d) The surgically treated birds were able to migrate successfully only when closely following a group of untreated birds.
- (e) In addition to being impaired in their migration ability, the surgically treated birds suffered a variety of other disabling effects.

**Directions (26-30):** Each question consists of two/three or four statements followed by two conclusions numbered I and II. Consider the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follow from the given statements using all statements together.

Mark your answer as,

- (a) If only conclusions I follows
- (b) If only conclusions II follows
- (c) If either conclusion I or conclusion II follows
- (d) If neither conclusion I nor conclusions II follows
- (e) If both conclusion I and conclusion II follow

**26. Statements:** All cake are biscuit

Some pastries are cake      Some biscuits are chips

**Conclusions: I.** All pastries being chips is a possibility  
**II.** Some cake are definitely not chips.

**27. Statements:** Some blues are greens

Some reds are blues      All greens are whites

**Conclusions: I.** Some reds are neither blues nor whites is a possibility  
**II.** All greens are reds is a possibility

**28. Statements:** All floor are roof

No window is roof      All windows are wall

**Conclusions: I.** Some roof which are wall are also floor.  
**II.** No wall is floor

**29. Statements:** All cake are biscuit

Some pastries are cake      Some biscuits are chips

**Conclusions: I.** Some biscuit which are pastries are also a part of chips.  
**II.** All chips if they are pastries then they must be a part of cake

**30. Statements:** Some blues are greens

Some reds are blues      All greens are whites

**Conclusions: I.** Some whites are not reds  
**II.** Some reds which are white are blue.

**Direction (31-35):** Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.

- a) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.
- b) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
- c) If the data either in statement I alone or in statement II alone are sufficient to answer the question.
- d) If the data in both statements I and II together are not sufficient to answer the question.
- e) If the data in both statements I and II together are necessary to answer the question.

**31.** There are six persons P, Q, R, S, T and U sitting around a table. Who is on the immediate right of T?

I. Only U is sitting between T and P.

II. P is third to the right of S.

**32.** What is the shortest distance between two points 'A' and 'B'?

I. 'A' is 15 km North from another point 'P', which is to the East of 'B' at a distance of 22 km.

II. point 'X' is to the West of 'B' at a distance of 5.6 km and to the North of 'A' at a distance of 6.5 km.

**33.** Who is Kavita's sister?

I. Sapna is the granddaughter of Amit, who is the father of Kavita's father.

II. The name of Kavita's sister starts with the letter 'S'.

**34.** Who among the five friends Sumit, Tare, Mukesh, Vikrant and Basuki is the youngest?

I. Basuki is older than three of them but Sumit is younger than Mukesh.

II. Tare is older than Vikrant and Basuki.

**35.** What is the code for 'book' in a code language?

I. In that language 'pik tik rik' means 'I like reading' and 'mik nek bek fek' means 'this book is interesting'.

II. In the same language 'pik tik mik rik' means 'I like reading book' and 'mik juk pan' means 'you write book'.

**Directions (36-38):** Study the following information to answer the questions.

Each of the six buildings – E, F, G, H, I and J has different number of floors. Only three buildings have more number of floors than J. G has more number of floors than I but less than E. I has more number of floors than J. F does not have the least number of floors. The building having least number of floors has 5 floors. The building having third highest number of floors has 26 floors. F has 14 floors less than the number of floors in I.

**36.** If the number of floors of a building is less than 38 and is an odd number which is divisible by 3 but not 7. How many floors does G have?

- (a) 15      (b) 35      (c) 9
- (d) 27      (e) 29

**37.** Which of the following buildings has the second highest number of floors?

- (a) I      (b) F      (c) J
- (d) H      (e) G

38. How many floors does building J possibly have?

- (a) 22 (b) 5 (c) 11  
(d) 35 (e) 12

**Directions (39–44) :** Study the following information to answer the given questions

S, T, U, V, W, X, Y and Z are sitting in a straight line equidistant from each other (but not necessarily in the same order). Some of them are facing south while some are facing north.

**(Note :** Facing the same direction means, if one is facing north then the other also faces north and vice-versa. Facing the opposite directions means, if one is facing north then the other faces south and vice-versa)

S faces north. Only two people sit to the right of S. T sits third to the left of S. Only one person sits between T and X. X sits to the immediate right of W. Only one person sits between W and Z. Both the immediate neighbors of T face the same direction. U sits third to the left of X. T faces the opposite direction as S. Y does not sit at any of the extremes ends of the line. V faces the same direction as W. Both Y and U face the opposite direction of Z.

39. How many persons in the given arrangement are facing North?

- (a) More than four (b) Four (c) One  
(d) Three (e) Two

40. Four of the following five are alike in a certain way, and so form a group. Which of the following does not belong to the group?

- (a) W, X (b) Z, Y (c) T, S  
(d) T, Y (e) V, U

41. What is the position of X with respect to Z?

- (a) Second to the left (b) Third to the right  
(c) Third to the left (d) Fifth to the right  
(e) Second to the right

42. Who amongst the following sits exactly between Z and W?

- (a) T (b) Y (c) X

- (d) W (e) U

43. Who is sitting 2<sup>nd</sup> to the right of T?

- (a) Z (b) V (c) X  
(d) W (e) None of these.

44. What is the position of W with respect to S?

- (a) Second to the left (b) Third to the right  
(c) Third to the left (d) Fifth to the right  
(e) Second to the right

**Directions (45–49):** In this question, relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statement and select the appropriate answer. Mark answer as:

- (a) Only conclusion I is true  
(b) Only conclusion II is true  
(c) Either conclusion I or II is true  
(d) Neither conclusion I nor II is true  
(e) Both conclusion I and II are true

45. **Statements :**  $L = P \leq W < V \leq K \geq Q$ ;  $B < L$ ;  $K = M$

**Conclusions: I.**  $B < V$  **II.**  $M > P$

46. **Statements :**  $L = P \leq W < V \leq K \geq Q$ ;  $B < L$ ;  $K = M$

**Conclusions: I.**  $L \geq Q$  **II.**  $W = M$

47. **Statements :**  $R \leq U = B < S$ ;  $B \leq X$

**Conclusions: I.**  $X > R$  **II.**  $X = R$

48. **Statements :**  $C > U \leq S < T = O > D \geq Y$ ;  $Z = O \leq P$

**Conclusions: I.**  $U > D$  **II.**  $S < P$

49. **Statements :**  $C > U \leq S < T = O > D \geq Y$ ;  $Z = O \leq P$

**Conclusions: I.**  $Z > Y$  **II.**  $C < O$

50. If it is possible to make only one meaningful word with the first, the third, the fifth and the eighth letters of the word **SHAREHOLDING**, which of the following will be the second letter of the word? If no such word can be made, give 'X' as the answer and if more than one such word can be made, give 'Y' as the answer.

- (a) L (b) E (c) S  
(d) X (e) Y