

## Reasoning

**Directions** (Q. Nos. 1 to 5) *Study the following information to answer the given questions.*

L, M, N, O, P, Q and R are sitting around a circle facing the centre. O is sitting between L and R. Q is second to the right of R and P is second to the right of Q. N is not an immediate neighbour of R.

- Which of the following is **not** correct?
  - R is second to the right of L
  - M is second to the left of N
  - L sits exactly between O and P
  - P and N are immediate neighbours
  - P sits to the opposite of N
- How many persons are seated between L and Q if we count anti-clockwise from L to Q?
  - One
  - Two
  - Three
  - Four
  - More than four
- Who is to the immediate left of P?
  - L
  - N
  - M
  - O
  - None of these

**Directions** (Q. Nos. 4 to 5) *Four of the following five are alike in a certain way based on their seating positions in the above arrangement and so form a group. Which is the one that **does not** belong to the group?*

- QPN
  - MOR
  - LRO
  - RQM
  - ROL
- LP
  - RM
  - MQ
  - NP
  - OR

**Directions** (Q. Nos. 6 to 10) *Study the following information to answer the given questions.*

A, B, C, X, Y, Z are seated in a straight line facing North. C is third to the right of Z and B sits second to the right of C. X sits to the immediate right of A.

6. Which of the following represents the pair of persons sitting exactly in the middle of the line?

- XB
- ZB
- BX
- XC
- XY

7. What is X's position with respect to Z?

- Immediate right of Z
- Second to the left
- Third to the right
- Second to the right
- None of these

8. Four of the following five are alike in a certain way based on their seating positions in the above arrangement and so form a group. Which is the one that **does not** belong to the group?

- ZA
- XC
- CY
- YB
- XA

9. How many persons are seated between A and C?

- One
- Two
- Three
- Four
- None of these

10. If A : X and Z : A, then Y:

- Y
- B
- A
- X
- None of these

**Directions** (Q. Nos. 11 to 15) *Study the following information to answer the given questions.*

In a certain code, '829' means 'how art thou', '953' means 'thou art good' and '15873' means 'thy good and thou bad'.

11. What may be the possible code for 'thy'?

- 1 or 7
- 7
- 3
- 5
- None of these

12. What is the code for 'thou'?

- 9
- 6
- 2
- 5
- None of these

13. What is the code for 'how' ?  
 (1) 5 (2) 8  
 (3) 2 (4) 9  
 (5) None of these
14. Which of the following may possibly be the code for 'thou no good' ?  
 (1) 508 (2) 780  
 (3) 507 (4) 780  
 (5) None of these
15. What is the code for 'how good thou art' ?  
 (1) 7589 (2) 8295  
 (3) 7183 (4) 8795  
 (5) Cannot be determined

**Directions** (Q. Nos. 16 to 20) *Below is given a passage followed by several possible inferences which can be drawn from the facts stated in the passage. You have to examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.*

**Mark answer** (1) if the inference is "definitely true", *ie*, it properly follows from the statement of facts given

**Mark answer** (2) if the inference is "probably true" though not "definitely true" in the light of the facts given

**Mark answer** (3) if the "data is inadequate", *ie*, from the facts given, you cannot say whether the inference is likely to be true or false

**Mark answer** (4) if the inference is "probably false" though not "definitely false" in the light of the facts given

**Mark answer** (5) if the inference is "definitely false", *ie*, it cannot possibly be drawn from the facts given or it contradicts the given facts

**Note** : Each of the five questions has only one distinct answer, *ie*, no two questions can have the same answer. If you get the same answer for more than one question, consider both again and decide which one of the two would more definitely be that answer and in the same way review the others also.

Cardiovascular disease is so prevalent that virtually all businesses are likely to have employees who suffer from, or may develop, this condition. Research shows that between 50-80% of all people who suffer a heart attack are able to return to work. However, this may not be possible if they have previously been involved in heavy physical work. In such cases, it may be possible to move the employee to lighter duties, with appropriate retraining where necessary. Similarly, high pressure, stressful work, even where it does not involve physical activity, should also be avoided. Human resource managers should be aware of the implications of job roles for employees with a cardiac condition.

16. Employees who suffer from cardiovascular diseases are mostly unable to return to work.
17. Employees suffering from cardiovascular diseases are unable to handle stressful situations
18. Employees above the age of 50 are found to suffer from cardiovascular diseases.
19. Physical and stressful work definitely leads to a heart attack.

20. Heart disease can affect employee in any type of business.

**Directions** (Q. Nos. 21 to 25) *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 questions. Read both the statements and*

**Give answer** (1) 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

**Give answer** (2) 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

**Give answer** (3) if the data either in statement I or in statement II alone are sufficient to answer the question

**Give answer** (4) if the data even in both statements I and II together are not sufficient to answer the question

**Give answer** (5) If the data in both statements I and II together are necessary to answer the question

21. Who is oldest among Peter Kevin, Joseph and Jason ?  
 I. Jason is older than Peter and Joseph.  
 II. Kevin is younger than Joseph.
22. How is 'happy' written in a code language ?  
 I. 'I happy today' is written as 'ke ne que' and 'today' is written as 'ke joi ne'.  
 II. 'I play' is written as 'qua pa'.
23. H is the mother of J. How is J related to V ?  
 I. V is the only daughter of H.  
 II. V is the sister of J.
24. What is the colour of white snow in a colour code ?  
 I. 'Green' is called 'Black', 'Black' is called Blue, and 'Blue' is called 'Red'.  
 II. 'Red' is called 'White' and 'White' is called 'Orange'.
25. Six people P, Q, R, S, T and U are seated around a circular table and are equidistant from each other. Who is second to the right of T ?  
 I. P is to the immediate left of Q and Q sits opposite R.  
 II. S is to the immediate left of U.

**Directions** (Q. Nos. 26 to 31) *Study the following information to answer the given questions.*

J, P, Q, R, S, T, U and V are 4 married couples sitting in a circle facing the centre. The profession of the males within the group are Lecturer, Lawyer, Doctor and Scientist. Among the males, only R (the Lawyer) and V (the Scientist) are sitting together. Each man is seated besides his wife. U, the wife of the Lecturer is seated second to the right of V. T is seated between U and V. P is the wife of the Doctor. Q is not the Doctor. S is a male.

26. Which of the following is P's position with respect to S ?  
 (1) Second to the right (2) Second to the left  
 (3) Immediate right (4) Immediate left  
 (5) Third to the left

27. Which of the following is J's position with respect to T ?  
 (1) Third to the left (2) Fourth to the right  
 (3) Third to the right (4) Opposite T  
 (5) Second to the right
28. Which of the following is **not true** regarding the couples?  
 (1) P is the wife of S  
 (2) T is the wife of Q  
 (3) R is the husband of J  
 (4) J and S are seated adjacent to each other  
 (5) All are true
29. The wives of which two husbands are immediate neighbours ?  
 (1) UT (2) SR  
 (3) VQ (4) RV  
 (5) None of these
30. Four of the following are alike in a certain way based on their seating position in the above arrangement and so form a group. Which is the one that **does not** belong to the group ?  
 (1) RSJ (2) TRV  
 (3) UTV (4) SGP  
 (5) UPQ
31. Who is the Lawyer's wife ?  
 (1) T (2) P  
 (3) J (4) U  
 (5) None of these

**Directions** (Q. Nos. 32 to 33) *Study the following information to answer the given questions.*

'TRAVEL' is related to 'UDKUSB' and 'CORNER' is related to 'MDQDPS'.

32. 'SURVEY' is related to  
 (1) UDXSTV (2) UXDTSV  
 (3) TVSUDX (4) UDXTVS  
 (5) UDXVTS
33. 'GROUPS' is related to  
 (1) TORHSP (2) TOHRSP  
 (3) TORPHS (4) ROTHSP  
 (5) ROTPHS

**Directions** (Q. Nos. 34 to 40) *Study the following information to 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. The following is an illustration of input and rearrangement. (Single digit numbers are preceded by a zero. All other numbers are two digit numbers)

- Input** : when 19 will you 07 be 40 coming 62 home 100 89  
**Step I** : be when 19 will you 07 40 coming 62 home 100 89  
**Step II** : be 07 when 19 will you 40 coming 62 home 100 89  
**Step III** : be 07 coming when 19 will you 40 62 home 100 89  
**Step IV** : be 07 coming 19 when will you 40 62 home 100 89  
**Step V** : be 07 coming 19 home when will you 40 62 100 89

- Step VI** : be 07 coming 19 home 40 when will you 62 100 89  
**Step VII** : be 07 coming 19 home 40 when 62 will you 100 89  
**Step VIII** : be 07 coming 19 home 40 when 62 will 89 you 100  
 Step VIII is the last step of the arrangement of the above input as the intended arrangement is obtained.  
 As per the rules followed in the above steps, find out in each of the following questions the appropriate steps for the given input.

**Directions** (Q. Nos. 34 to 37) **Input** : next 57 problem 82 14 trend 02 purchase growth 41

34. How many steps would be needed to complete the arrangement ?  
 (1) V (2) VI  
 (3) VIII (4) VII  
 (5) Cannot be determined
35. Which of the following would be the final arrangement ?  
 (1) growth 02 next 14 problem 41 purchase 57 82 trend  
 (2) growth next problem purchase trend 02 14 41 57 82  
 (3) growth 02 next 14 problem 41 purchase 57 trend 82  
 (4) growth 82 next 57 purchase 41 problem 14 next 02  
 (5) None of the above
36. Which of the following would be step I ?  
 (1) 41 purchase 02 trend 14 82 problem 57 next growth  
 (2) growth 02 next 57 problem 82 14 trend purchase 41  
 (3) 41 growth next 57 problem 82 14 trend 02 purchase  
 (4) growth next 57 problem 82 14 trend 02 purchase 41  
 (5) growth next 57 purchase 82 14 trend 02 problem 41
37. Which word/number would be the sixth position from the left end in step III ?  
 (1) purchase (2) 14  
 (3) problem (4) 41  
 (5) trend

**Directions** (Q. Nos. 38 to 40) **Input** : just 14 and value 22 time 5 15

38. Which word/number would be at position 5 from the right end in step III ?  
 (1) and (2) 15  
 (3) just (4) 14  
 (5) time
39. Which of the following would be step II of the arrangement ?  
 (1) and just value 14 22 time 5 15  
 (2) and 5 just 14 value 22 time 15  
 (3) and 5 just 14 time 15 22 value  
 (4) and just value time 14 22 3 15  
 (5) None of the above
40. How many steps would be needed to complete the arrangement and which would be the last step ?  
 (1) Step IV : and 5 just 14 time 15 value 22  
 (2) Step V : and 5 just 14 time 15 value 22  
 (3) Step V : 22 and 15 just 14 time 5 just  
 (4) Step VI : and 5 just 14 time 15 value 22  
 (5) None of the above

**Directions** (Q. Nos. 41 to 42) *In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions.*

**Mark answer**

- (1) if only conclusion I follows
- (2) if only conclusion II follows
- (3) if either conclusion I or II follows
- (4) if neither conclusion I nor II follows
- (5) if both conclusions I and II follow

41. **Statement** :  $E < F \leq G = H > S$

**Conclusions** : I.  $G > S$

II.  $F \leq H$

42. **Statement** :  $P \leq Q < W = L$

**Conclusions** : I.  $L > P$

II.  $Q \leq L$

**Directions** (Q. Nos. 43 to 49) *Study the following information to answer the given questions.*

six lectures are scheduled in a week starting from Monday and ending on Sunday of the same week. Computer Science is not on Tuesday or Saturday. Psychology is immediately after Organizational Behaviour. Statistics is not on Friday and there is one day gap between Statistics and Research Methods. One day prior to the schedule of Economics there is no lecture. (as that day is the 'off' day and Monday is not the off day.)

43. Which of the following is the last lecture scheduled ?

- (1) Statistics
- (2) Research Methods
- (3) Psychology
- (4) Cannot be determined
- (5) None of these

44. If Wednesday is the 'off' day, the code would be 2-4, if Thursday was the 'off' day, the code would be 3-3. Taking into account the 'off' day which of the following code is correct ?

- (1) 2-4
- (2) 3-3
- (3) 4-2
- (4) Cannot be determined
- (5) None of these

45. Which lecture is scheduled on Friday ?

- (1) Economics
- (2) Psychology
- (3) Computer Science
- (4) Cannot be determined
- (5) None of these

46. How many lectures were scheduled between Economics and Psychology ?

- (1) One
- (2) Two
- (3) Three
- (4) Cannot be determined
- (5) None of these

47. Which day is Computer Science scheduled ?

- (1) Monday
- (2) Wednesday
- (3) Thursday
- (4) Cannot be determined
- (5) None of these

48. Which day is the 'off' day ?

- (1) Tuesday
- (2) Wednesday
- (3) Friday
- (4) Cannot be determined
- (5) None of these

49. If someone wants to attend only two lectures out of Psychology, Research Methods and Computer Science but wants the two days to be successive (one after the other) then which lecture combination may be selected ?

- (1) Research Methods, Computer Science
- (2) Psychology, Computer Science
- (3) Psychology, Research Methods
- (4) Any two of the three is possible
- (5) With the condition of successive day it is not possible

**Directions** (Q. Nos. 50 to 52) *In each question below is/are given statement/s followed by two assumptions/inferences numbered I and II. An assumption is something supposed or taken for granted. And an inference can be inferred from the given information. You have to consider the statement/s and the following assumptions/ inferences and decide which of the assumptions/ inferences is implicit in the statement/s.*

Give answer (1) if only I is implicit

Give answer (2) if only II is implicit

Give answer (3) if either I or II is implicit

Give answer (4) if neither I nor II is implicit

Give answer (5) if both I and II are implicit

50. **Statement** : "Sometimes a person acting out of conviction, pursuing a dream, represents the spirit of an entire generation".

I. One gets conviction out of one's action.

II. Expectations of different generations are not the same.

51. **Statement** : "Take a recruitment system, for example, the company would make an offer to somebody it had rejected three months ago ! There was no recruitment database that kept record of that".

I. It is possible to devise a system which would indicate those applicants who were rejected earlier.

II. This company considers three months time too short a period to reconsider recruitment decision about a candidate.

52. **Statement** : "Everyone does not need to build a 100 crore or 1000 crore company. Small vs Big vs Superbig is a choice that an entrepreneur makes herself/ himself depending upon the ambitions, values and what she/he likes doing".

I. The figures are for the turnover of the company.

II. There is hardly any distinction between a small or a big company.

**Directions** (Q. Nos. 53 to 56) *Read the given statements carefully and answer the questions which follow.*

53. After the government announced a compensatory policy for farmers in return for the acquisition of their land, the farmers demanded a written proof of the policy.

Which of the following could possibly be a **cause** for demanding the written proof ?

- (1) The farmers were unable to contest the inadequate compensation for their land in earlier such policies

- (2) The compensation promised in the policy was grossly inadequate
- (3) The farmers were unwilling to surrender their lands to the government
- (4) The farmers demand a certain percentage of share out of the revenue generated by the government off their lands
- (5) The only option to enforce the government officials to frame a compensatory policy for the farmers was to demand a proof

54. The number of cases concerning a non-contagious chemical poisoning is on the rise among local villagers.

Which of the following could possibly be a **cause** of the statement given above ?

- (1) The government has ordered an immediate enquiry into the matter
- (2) Unless timely treatment is provided to the patients, the poisoning can prove to be fatal
- (3) Many factories surrounding the village do not dispose off their wastes appropriately
- (4) The only hospital in the area is not equipped to treat chemical poisoning related ailments
- (5) A study done a couple of years ago had reported that a large number of farmers had stopped using chemical fertilizers owing to their ill-effects on health

55. In a governmental initiative, which started a couple of years ago, school teachers of a particular State were engaged in teaching the illiterate every evening after the regular school hours.

Which of the following can be an **effect** of the statement given above ?

- (1) A report given to the State government a couple of years ago stated a high percentage of illiterate population as compared to some other States
- (2) Many teachers were motivated to join the scheme started by the government as the remuneration provided to them was attractive
- (3) Lack of accessibility to schools and extreme poverty were major causes of illiteracy in the State
- (4) Evening classes help individuals working as daily wagers attend classes after work
- (5) The literacy rate in the State has improved significantly this year

56. Small grocery shop owners have gone on a day's strike in order to protest against the entry of a foreign retail store chain in the city.

Which of the following statements can be an **effect** of the statement given above ?

- (1) The small grocery shop owners perceive the big retail giants as sharks, trying to dominate the available market space
- (2) Foreign investment retail has shown a tremendous growth in India since a couple of years
- (3) There have been several countries in which retail chain giants have totally wiped out small scale grocery shops

- (4) The government agreed to take all political steps required to safeguard the interests of small scale retailers

- (5) A recent survey indicated that a large number of people prefer to buy their daily grocery items from the nearby grocery stores than big retail chain stores

**Directions** (Q. Nos. 57 to 60) *Read the following statements carefully and answer the questions which follow.*

57. Real estate builders have refused to bring down the property prices as proposed by the government this year.

Which of the following arguments would strengthen the stance taken by the builders ?

- (1) Very few people ventured into buying properties this year owing to exorbitant prices set by the builders
- (2) With the ever increasing cost of basic materials such as cement and steel, the profit of the builders has gone down by 48% this year
- (3) The builders have earned huge profit in a governmental scheme for building low cost housing societies
- (4) In a report published by a national daily, the margin of profit earned by a builder per square foot is as much as eighty per cent of its cost price
- (5) The builders have to necessarily abide by the decree of the government which controls the prices of the

58. The ministry of sports has been advised by a committee to take the highest award in the field of sports back from two players who were allegedly involved in match-fixing.

Which of the following statements would weaken the argument put forward by the committee to the sports ministry ?

- (1) A good conduct in the past and a lack of evidence against the players make the case against them very weak
- (2) The ministry of sports has never declined the recommendations made by the committee earlier
- (3) Taking the award back from the players would set a good example to other players for avoiding such actions in the future
- (4) There have been past cases where the award had to be taken back from the players owing to some misconduct later on
- (5) The committee is constituted of some of the most respected and esteemed members from the fields of sports and politics

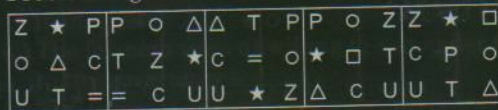
59. Many organizations have been resorting to recruitment based upon performance at graduate/post-graduate level exams rather than conducting exams for the same purpose.

Which of the following statements would strengthen the argument given in the above statement ?

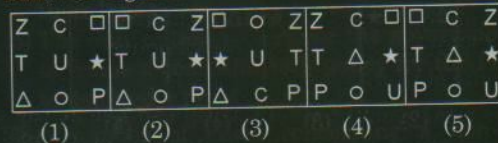
- (1) A recent study shows no link of past performance with the performance in recruitment exams



68. Problem Figures



Answer Figures



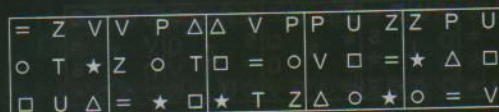
69. Problem Figures



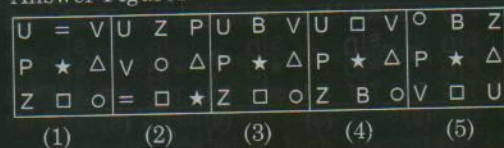
Answer Figures



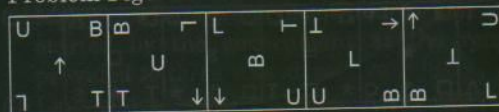
70. Problem Figures



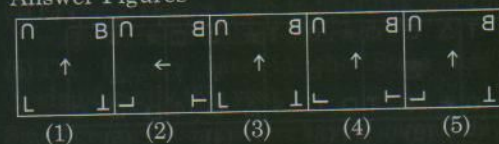
Answer Figures



71. Problem Figures



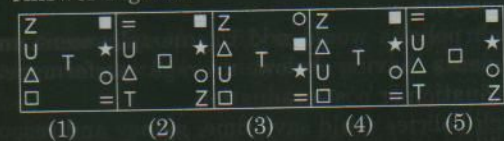
Answer Figures



72. Problem Figures



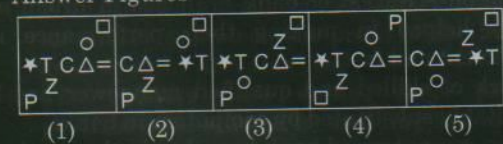
Answer Figures



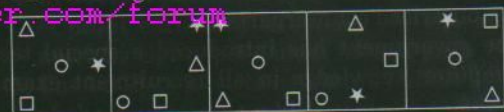
73. Problem Figures



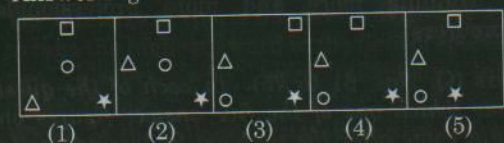
Answer Figures



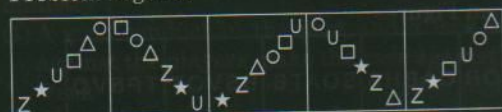
74. Problem Figures



Answer Figures



75. Problem Figures



Answer Figures

