

Point R is 10m to the south of T. Point U is 3m to the east of R. Point V is 5m to the south of U. Point W is 6m to the west of V. Point S is 10m to the north of W. Point Q is 6m to the east of S. Point P is 5m to the north of Q.

1. Which of the following represents the direction of point U with respect to point S?

- (o) South-east (o) North-west (o) South-west (o) West
(o) North-east

2. How far and in which direction is point T from point P?

- (o) 5m south (o) 3m east (o) $\sqrt{34}$ m west (o) 3m west (o) 5m north

3. What is the shortest distance between point S and point R? (o) $\sqrt{5}$ m (o) $\sqrt{34}$ m (o) 16m (o) $3\sqrt{5}$ m (o) 4m

4. A person started walking towards South from point X. After walking 48m he took a right turn and walked 7m. Then he took a right turn and walked 24m. Again he took a right turn and walked 14m and stopped at point Y. How far and in which direction was he from the starting point? (o) 50m North-east (o) 15m North (o) 25m South-east (o) 50m North (o) 10m South-east

5. House A is towards East of house M. House B is towards North of house A. House C is towards South of house B. Towards which direction is house C from house M?

- (o) East (o) South-east (o) North-east (o) Data inadequate
(o) None of these

Study the following information carefully 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 in each step. The following is an illustration of input and rearrangement. (All the numbers are two-digit numbers.)

Input: 43 ducks 10 sing 92 rights 61 revolt 57 love

Step I: 10 43 ducks sing 92 rights 61 revolt 57 love

Step II: 10 rights 43 ducks sing 92 61 revolt 57 love

Step III: 10 rights 43 revolt ducks sing 92 61 57 love

Step IV: 10 rights 43 revolt 57 ducks sing 92 61 love

Step V: 10 rights 43 revolt 57 ducks 61 sing 92 love

Step V is the last step, find out in each of the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

Input: 20 apples 12 arrange 76 best bear 64 might 56

6. How many steps will be required to complete the rearrangement?

(a) Eight (b) Five (c) Six (d) Nine (e) None of these

7. Which step number is the following output?

12 arrange 20 might 56 best 64 apples 76

- (a) Step V (b) Step III (c) Step VI (d) Step IV (e) There will be no such step

8. Which of the following represents the position of 'apples' in Step III?

- (a) Fourth from the left (b) Sixth from the left
(c) Fourth from the right (d) Second from the right
(e) None of these

9. Which word/number would be at the seventh position from the right in Step VI?

- (a) Apples (b) 20 (c) 76 (d) might (e) None of these

10. Which of the following will be the penultimate step?

- (a) 12 20 apples arrange 76 best bear 64 might 56
(b) 12 arrange 20 might 56 apples 64 best 76 bear
(c) 12 arrange 20 apples 56 might 64 76 best bear
(d) 12 arrange 20 might 56 best 64 apples 76 bear
(e) None of these

Each of the following 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 in 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 in either in statement I alone or in statement II alone are sufficient to answer the question.
d) if the data in both the statements I and II together are not sufficient to answer the question.
e) if the data in both the statements I and II are together necessary to answer the question.

11. What does 'ab' mean in the code language?

I. 'ab cd ef' means 'All the best' and 'ef gh ij' means 'best of luck' in that code language.

II. 'mn pq cd' means 'All is well' and 'vw wx si' means 'either or you' in that code language.

12. How is A related to D?

I. C is the brother of D who is the niece of A.

II. B is sister of A who is the wife of E. E is the father of D.

13. What is A's rank in the class of 30 Students?

I. B, who is 11th from the top in the class. A is exactly between B and C, who is 16 from the bottom.

II. A who is 10 rank above B who is 15th rank below C.

14. Point Y is in which direction with respect to point B?

I. Point A is east of point B and north of point X. Point Y is north-west of point X.

II. Point X is east of point B and north of point A. Point Y is north of point X.

15. Who among A, B, C, D and E is Shortest?

I. B is taller than E but he is not the tallest among them.

II. C is taller than D and E. C is not taller than A and B.

Study the following information to answer the given questions In a certain code

'Imagine with your believe' is written as 'lp pk ks st',

'achieve with your might' is written as 'ir ks fu lp'.

'believe and achieve both' is written as 'gt ir gb pk'

'your success and destiny' is written as 'gt xz lo ks'

16. What is the code for 'success'?

(o) gt (o) xz (o) lo (o) ks (o) Cannot be determined

17. Which of the following may represent 'might is with'?

(o) fu lp st (o) fu py lo (o) re lp gt (o) fu xz re (o) lp re fu

18. 'pk' is the code for

(o) your (o) believe (o) with (o) and (o) Cannot be determined

19. What is the code for 'Imagine'?

(o) lp (o) pk (o) st (o) ks (o) Cannot be determined

20. Which of the following represents 'and achieve with'?

(o) ir gt lp (o) ni gt st (o) ir gt lo (o) pk ir gt (o) gt pk lp

21. In a family of six members having two generation. A is the father-in-law of B. D is the sister-in-law of E, who is the mother of C. F is the brother of C, who is unmarried. B has no sister-in-law. Then how is F related to B?

(o) Brother-in-law (o) Wife (o) Husband (o) Father (o) None of these

22. D said, "A's father is the only brother of my sister's son". How is A's father related to D?

(o) Cousin (o) Nephew (o) Aunt (o) Data inadequate (o) None of these

Read the following information carefully to answer the following Questions

'1 # 9' means '1 is the daughter of 9'

'1 © 9' means '9 is the brother of 1'

'1 \$ 9' means '9 is the sister of 1'

'1 & 9' means '1 is the son of 9'

'1 * 9' means '1 is the father of 9'

'1 @ 9' means '1 is the mother of 9'

23. Which of the following indicates that 'A is the maternal uncle of S'?

(o) A & M # P @ K © S (o) A & M & K @ P © S

(o) S & K & P @ M © A (o) S & P # M @ K © A

(o) None of these

24. What does the expression 'A @ M \$ L © D & N'?

(o) N is the wife of A (o) M is the son of N

(o) M is the daughter of N (o) N is the husband of A

(o) None of these

25. Which of the following indicates 'M is the daughter of S'?

(o) M * A # R @ S @ T (o) S * A # R @ M @ T

(o) Y @ S # O * M (o) Y © M \$ T # S (o) None of these.

26. Statements: $S \leq L \leq I = P \geq E > R$; $L > Q$

Conclusions: I. $L < R$ II. $E \geq Q$

(o) only II (o) Only I and II (o) I or II (o) I only (o) None

27. Which will prove that " $S > R$ " is correct.

I. $S \leq L \leq I = P \geq E > R$

II. $S \geq L \geq I = P \geq E > R$

III. $S \geq L \geq I = P \geq E \geq R$

(o) only II (o) Only I and II (o) I or II (o) III only (o) None

28. Which of the following will prove that " $S > G$ " and " $S \geq R$ " is correct.

I. $G > R \geq E = A \leq T \leq S$

II. $G > R < E = A \leq T \leq S$

III. $G < R \leq E = A \leq T \leq S$

(o) only II (o) Only I and II (o) I or II (o) I only (o) None

29. Which of the following will prove that " $S > R$ " is NOT correct.

I. $G > R \geq E = A \leq T \leq S$;

II. $S > L > I = P \geq E > R$

III. $S \leq A \leq J = Q < R$

(o) only II (o) Only I and II (o) I or II (o) III only (o) None

30. Statements: $G > R \geq E = A \leq T \leq S$; $D \leq A \leq J$

Conclusions: I. $J > G$ II. $J = G$

(o) only II (o) Only I and II (o) I or II (o) I only (o) None