

Quiz Date: 11th July 2020

Directions (1-5): Study the following information carefully to answer the given question.

There are eight shopkeepers i.e. P, Q, R, S, T, U, V and W sitting in a row such that some of them are facing south and some of them facing north but not necessarily in the same order. They all have different number of pens with them. The immediate neighbour W faces opposite direction(i.e. if one faces south then other face in the north and vice versa). P has 3 less pens than U. R has 5 pens less than V. T sits fourth to the right of P and both faces opposite direction and one of them sits at the end of the row. W has odd number of pens which is a perfect square less than 85 and more than 27. Only two shopkeeper sits between W and the one who has 20 less pens than W. There are only two shopkeeper sits between the one who has 11 pens more than P and R. R does not have 49 pens with him. T does not sit at the end of the row. W sits on immediate right of T. The one who has 49 pens sits second to the left of W. U sits second to the left of T and has 64 pens with him. S faces opposite direction of Q. Those who sits at the end of the row faces opposite direction. R sits second to the right of V and both faces same direction. S is not the immediate neighbour W and does not face north direction. T has 10 less pens than P. V has 41 pens with him.

Q1. Who among the following shopkeeper has 72 pens with him?

- (a) S
- (b) P
- (c) Q
- (d) R
- (e) None of these

Q2. Who among the following sit second to the left of Q?

- (a) The one who has 49 pens
- (b) The one who has 61 pens
- (c) The one who has 51 pens
- (d) The one who has 72 pens
- (e) The one who has 81 pens

Q3. Who among the following sits on the immediate right of U?

- (a) R
- (b) P
- (c) V
- (d) Q
- (e) Either (a) or (c)

Q4. Which among the following shopkeeper has 49 pens with him?

- (a) S
- (b) Q
- (c) T

- (d) W
- (e) None of these

Q5. How many persons faces south direction?

- (a) Two
- (b) Three
- (c) Four
- (d) Can't be determined
- (e) Five

Q6. Scientists have now confirmed that crocodiles sleep with one eye open. They have discovered that crocodiles can deploy “unilateral eye closure” while dozing to keep a close eye on potential threats or prey. It’s already known that birds have evolved unihemispheric sleep, which is when one half of the brain stays awake while the other shuts down. But land-based mammals fully shut their eyes when they snooze.

Which of the following, if true, would explain the reason of this behavior in crocodiles and birds?

- (a) This behaviour is a trait found in birds and crocodiles throughout the world.
- (b) This behaviour was discovered even in Caimans.
- (c) Land-based mammals are highly individualistic.
- (d) Birds are crocodiles’ closest evolutionary relative, having shared a common ancestor before splitting and becoming vastly different species about 155m years ago.
- (e) None of these

Q7. In Europe, the politicians who welcome the refugees take a stand of basic human decency. They believe that people are fleeing for their lives from terror and war and to deny them asylum would violate the most basic standards of compassion. But those who oppose the refugees have their own valid points. They say that the new host countries are unable to commit large social transfers to an unending, the essentially unlimited, number of new arrivals. That would lead to a fiscal crisis.

Which of the following can be concluded from the passage above?

- (a) Migration crisis in Europe is a complex issue.
- (b) In Europe, not accepting influx of refugees is really compassionate.
- (c) Keeping doors wide open for refugees is suicidal for a country.
- (d) Trying to forcibly stop the migrant influx would fail.
- (e) Both (a) and (b)

Q8. **Statement:** Foreign lender HSBC has decided to shut down some of its branches in the country citing that more customers are availing banking services through the digital medium rather than going to branches.

Which of the following may be the **reason(s)** for the shutdown of branches in India?

I. The private banking space is hugely competitive. Few decades ago, foreign banks had an edge in the private banking space because of quality service, global investment tools and an untapped market. Today, the likes of ICICI Bank and Axis Bank have stormed the market with similar product offerings.

II. HSBC Bank was in the news due to the black money probe. The bank leaked a list of account holders who illegally stashed funds in the foreign bank to escape income tax scrutiny. The Income tax department had attached bank accounts worth Rs 2,300 crore of 20 people named in the HSBC black money list.

III. The Indian economy is yet to see a big pick up despite being in the bright spot as India is more consumption-oriented than other emerging markets such as China or Brazil.

- (a) Only I
- (b) Only I and II
- (c) All of the above
- (d) All except II
- (e) None of the above

Q9. If all the vowels of the word 'AERIFEROUS' are replaced by its succeeding letter according to the English alphabet and all the consonant are replaced with their previous letter according to the English alphabet and then all the letters are arranged in the alphabetical order the how many letters are there between the third letter from the left and second letter from the right in the English alphabetic series?

- (a) 11
- (b) 9
- (c) 12
- (d) 10
- (e) None of these

Q10. How many meaningful words can be formed using second, sixth, ninth and tenth letter of the word "ADHESIONAL". If more than one meaning full word formed then mark your answer K and if not then which of the following is the third letter from the left of that meaningful word?

- (a) D
- (b) L
- (c) k
- (d) I
- (e) A

Directions (11-13): Study the following information and answer the questions given below:

There are AB axis in such a way that A is in north and B is in south direction. There is XY axis in such a way that X is in west direction and Y is in east direction. AB axis and XY axis intersect at a point Q in such a way that AQ is 15m, QB is 17m, QX is 12m, QY is 24 m.

Mr. Z starts walking along the QX line towards Q from X and after walking 4m he takes a left turn and walks for 6m to reach point S. Mr. L starts walking in the south direction from Y and walks 4m to stop at point K. Mr. D walks towards Q from A and walks for 8m and takes a left turn and walks for 3m to reach point I. Mr. M starts walking in the north direction from point B and walks for 13m and then takes a right turn and walks for 3m to reach point N.

Q11. What is the shortest distance between point S and point N?

- (a) $\sqrt{231}$ m
- (b) $\sqrt{221}$ m
- (c) $\sqrt{211}$ m
- (d) 13 m
- (e) None of these

Q12. How far and in which direction is point K with respect to point N?

- (a) 21m west
- (b) 24m west
- (c) 22m west
- (d) 21m east
- (e) 22m east

Q13. In which direction is point S with respect to Mr. M's final position?

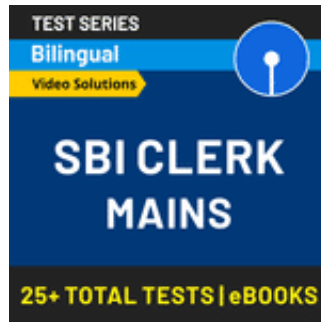
- (a) Southeast
- (b) North
- (c) Northeast
- (d) Southwest
- (e) Northwest

Q14. If the letters of the word 'RABBLEMENT' are arranged in the English alphabetical order from left to right, the position of how many letters will remain unchanged?

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) None of these

Q15. How many such pairs of letters are there in the word 'STAGNATION' each of which has as many letters between them in the word as in the English alphabet (both forward and backward directions)?

- (a) None
- (b) Two
- (c) four
- (d) Three
- (e) More than four



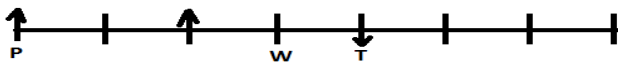
Solutions

Directions (1-5):

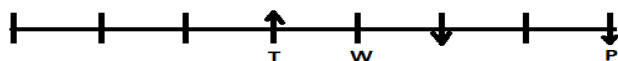
Sol.

Step 1: Using the given conditions, T sits fourth to the right of P and both faces opposite direction and one of them sits at the end of the row. T does not sit at the end of the row. W sits on immediate right of T. The immediate neighbour W faces opposite direction (i.e. if one faces south then other face in the north and vice versa). So, there will be two possible cases,

Case 1

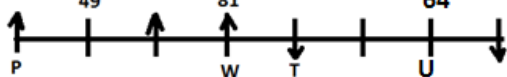


Case 2

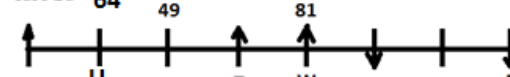


Step 2: As per the given conditions, the one who has 49 pens sits second to the left of W and W has odd number of pens which is a perfect square less than 85 and more than 27. So, W has 81 pens with him and those who sits at the end of the row faces opposite direction. U sits second to the left of T and has 64 pens with him. So, there will be four cases,

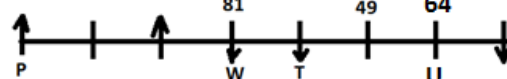
Case 1a



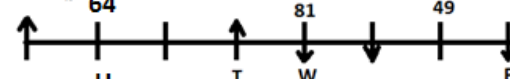
Case 2a



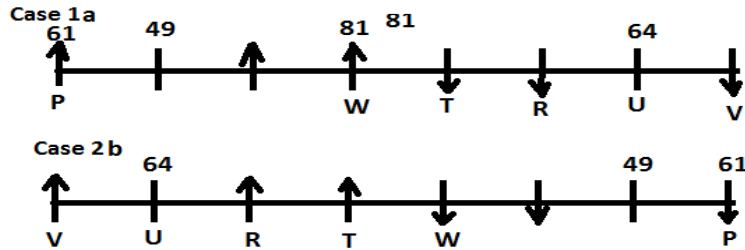
Case 1b



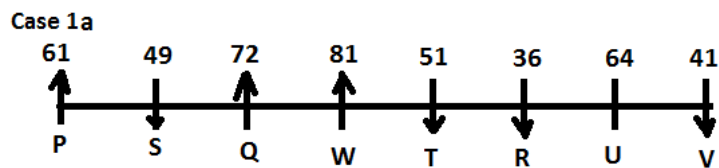
Case 2b



Step 3: Now, P has 3 less pens than U so P has 61 pens with him. R sits second to the right of V and both faces same direction. R does not have 49 pens with him. So, from the given conditions case 1b and case 2a will be eliminated.



Step 4: From the rest of the conditions, S faces opposite direction of Q. S is not the immediate neighbour W and does not face north direction. So, case 2b will be eliminated. T has 10 less pens than P. There are only two shopkeeper sits between the one who has 11 pens more than P and R. So, Q has 72 pens with him. V has 41 pens with him. R has 5 pens less than V. Hence, we get our final answer,



S1.Ans.(c)

S2.Ans.(b)

S3.Ans.(e)

S4.Ans.(a)

S5.Ans.(d)

S6. Ans.(d)

Sol. Crocodiles sleep with one eye open. This behaviour trait is found in birds too, but land based animals shut both their eye when they sleep. Finding this behavior in birds and crocodiles throughout the world does not explain the reason behind the occurrence of such a trait, so option (a) can be ruled out. Option (b) can also be eliminated because caimans are also reptiles resembling crocodiles. Option (c) is very vague and it is concerned with land based mammals only. Option (d) identifies a relationship between crocodiles and birds, and this explains the behavioral trait referred to in the passage.

S7. Ans.(a)

Sol. Some politicians believe that denying asylum to refugees would violate the basic standards of compassion. Others believe that host countries would face a financial crisis if they allow an unending and unlimited number of refugees. The refugee problem in Europe is viewed differently by two groups of politicians – one in favour of accepting them on humanitarian ground and the other expressing their inability to accept them due to the financial crisis the refugees would create. It is reasonable to conclude that the refugee crisis is a complex one: it is inhuman to send them back, and at the same time accepting them would lead to a fiscal crisis. So (a) is the right option. Option (b) contradicts the passage. (c) Misses one point and carries the other too far. Option (d) is unrelated to the passage.

S8. Ans. (e)

Sol. As it is mentioned in the statement that more customers are availing banking services through the digital medium, i.e. digital banking is becoming popular day by day in the world and the customers are making maximum transactions online. So, none of the options given can be concluded as a reason from the statement.

S9. Ans. (a)

Sol. After applying the different conditions given in the question, we get

A E R I F E R O U S

B F Q J E F Q P V R

B E F F J P Q Q R V

Then the total number of letters between 'F' (third letter from the left) and 'R' (second letter from the right) is 11 (G, H, I, J, K, L, M, N, O, P and Q).

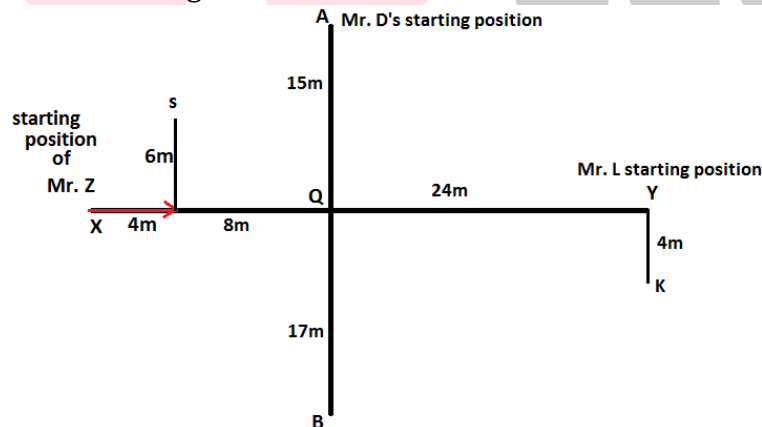
S10. Ans. (c)

Sol. The second, sixth, ninth and tenth letter of the word "ADHESIONAL" are D, I, A and L using these letters two meaningful words can be made 'DIAL' and 'LAID'.

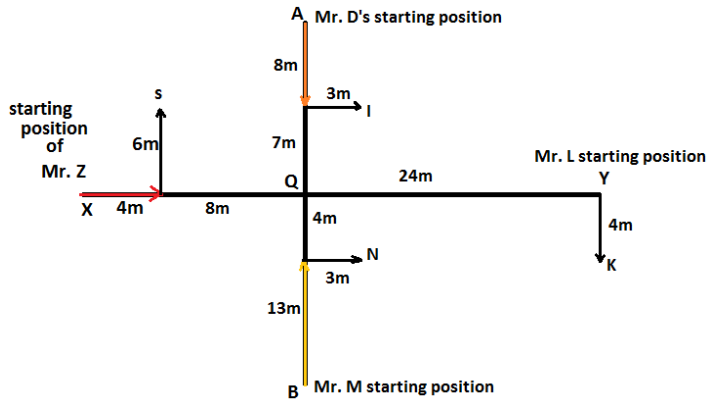
Directions (11-13):

Sol.

Step 1:- From the given condition, there is XY axis in such a way that X is in west direction and Y is in east direction. AB axis and XY axis intersect at a point Q in such a way that AQ is 15m, QB is 17m, QX is 12m, QY is 24m. Mr. Z starts walking along the QX line towards Q from X and after walking 4m he takes a left turn and walks for 6m to reach point S. Mr. L starts walking in the south direction from Y and walks 4m to stop at point K.

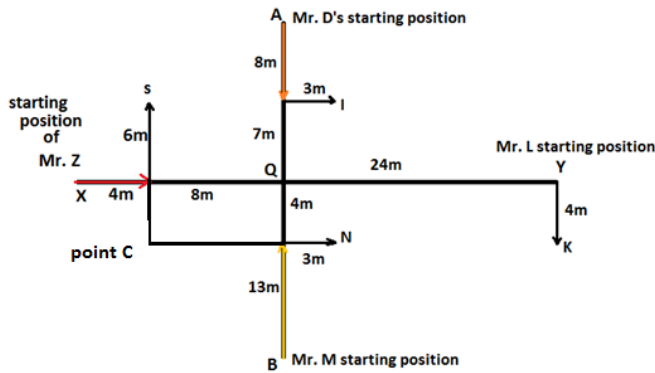


Step 2:- Now, Mr. D walks towards Q (south) from A and walks for 8m and takes a left turn and walks for 3m to reach point I. Mr. M starts walking in the north direction from point B and walks for 13m and then takes a right turn and walks for 3m to reach point N. Hence, we get our final answer.



S11.Ans.(b)

Sol.



Shortest distance between point S and point N

If, SCN is a right triangle

Then, $SN = \sqrt{(SC)^2 + (CN)^2}$ m = $\sqrt{(100 + 121)}$ m = $\sqrt{221}$ m

Therefore, the required distance is = $\sqrt{221}$ m

S12.Ans.(d)

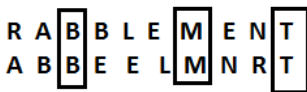
Sol. Point K is $(24 - 3)$ m = 21m east of point N.

S13.Ans.(e)

Sol.

S14.Ans.(d)

Sol. There are three letters whose position remain unchanged after the following operation given in the question.



S15.Ans.(b)

Sol. There are only two such pairs of letters in the given word which has as many as letter between them in the word as in the English alphabet.

S T A G N A T I O N



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