Quiz Date: 25th May 2020

Direction (1-2): Study the following information to answer the given questions:
A person starts walking from point X towards east direction. After walking 5km he turns to the left and walks 3km. From there he turns to the right and walks 4km. Thereafter he turns to the right and walks 7km. Then he turns to the right and walks 12 km and stops at point Y.

Q1. If point Z is 4km to the north of point Y then what is the distance between point Z and point X?
(a) 6km
(b) 4km
(c) 5km
(d) 3km
(e) None of these

Q2. How far (shortest distance) and in which direction is point X with respect to point Y?
(a) 3km, south-east
(b) $3\sqrt{2}$, north-east
(c) 5km, north-east
(d) $4\sqrt{2}$, south-west
(e) None of these

Q3. A is 1m west to D. F is 5km south to E.B is 2 m north to D, which 4km north to C.E is 3km east to B. In which direction is point F with respect to A?
(a)northwest
(b)northeast
(c)southwest
(d) southeast
(e) none of these

Direction (4-6): Study the following information carefully and answer the given questions.
A person walked for 3km, then took a right turn and walked 5km, then a left turn and walked 4km. and again took a right turn and walked 6km. He then took three consecutive left turns and walked 7 km, 15km and 4 km respectively.

Q4. If the person is now facing west direction, then in which direction did he started walking initially?
(a) north
(b) west
(c) east
(d) south
(e) none of these

Q5. What is the shortest distance between the initial and final point of the person? (apply the condition given in question number 4).

(a) $\sqrt{41}$
(b) $\sqrt{29}$
(c) $3\sqrt{43}$
(d) $2\sqrt{29}$
(e) none of these

Q6. In which direction is the final point with respect to the 3rd turning point? (apply the condition given in question number 4).
(a) north east
(b)north west
(c) south east
(d) south west
(e) none of these

**Directions (7-8):** Study the following information carefully and answer the questions given below.
A is 1 m to the north of B, who is 2 m to the north of F. E is 5 m to the east of A and D is to the southeast of B and is in line with F at a distance of 5 m.

Q7. E is in which direction with respect to D and what is the distance between them?
(a) 5 m, East
(b) 3 m, North
(c) 2 m, South
(d) 2 m, West
(e) None of these

Q8. A is in which direction with respect to D?
(a) Northwest
(b) South
(c) North
(d) Southeast
(e) None of these

Q9. Prakash starts walking towards his office. He walks 15 m towards north and then 10 m towards west. He then turned to the south and covered 5 m. Further, he turned to the east and moved 8 m. Finally, he turned right and walks 10 m. How far and in which direction is he from his starting point?
(a) 2 m West
(b) 5 m East
(c) 6 m South
(d) 3 m South
(e) 2 m east

Q10. Gaurangi starts from point T, walks North to Point U which is 4m away. She turns left at 90° and walks to W which is 4m away, turns 90° right and goes 3m to P, turns 90° right

and walks 1m to Q, turns left at 90° and goes to V, which is 1m away and once again turns 90° right and goes to R, 3m away. What is the distance between T and R.
(a) 4m
(b) 5m
(c) 7m
(d) 8m
(e) None of these

Directions (11-12): Study the following information to answer the given questions:
Given
A*B means B is 1m east to A
A@B means B is 1m west to A
A#B means B is 1m south to A
A%B means B is 1m north to A
A!B means B is 2m east to A

Q11. If R @ P # Q ! S * T, holds true, then in which direction is T with respect to P?
(a) south-east
(b) south-west
(c) north-east
(d) north-west
(e) none of these

Q12. If D ! O # R @ E % M ! N holds true, then in which direction is point M with respect to D?
(a) south
(b) west
(c) north
(d) east
(e) none of these

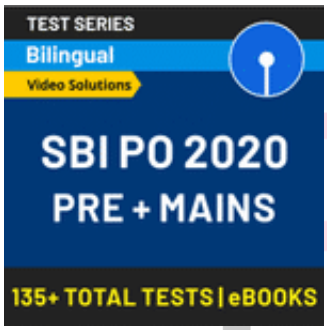
Q13. Chhavi started from point A. After walking for some time, she turned to her left and continued walking, then after some time turned to her right. Now walking for some distance, she turned to her left and after this she turned to her right. Now final after turning to her right again she stopped. If now she is walking in west direction, in which direction did she started her journey from point A?
(a) South
(b) East
(c) North
(d) West
(e) Cannot be determined

**Directions (14-15): Study the following information carefully and answer the given questions:**

Point P is 12m east of point Q. Point Q is 9m north of point R and also 11m south of point S. Point T is 8m west of point S. Point R is 14m south of point U. Point W is 15m west of point R.

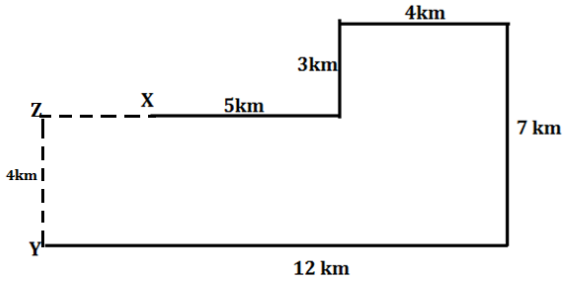
Q14. Point W is in which direction with respect to point S?
(a) North-west
(b) South-west
(c) North-east
(d) South-east
(e) None of these

Q15. What is the shortest distance between U and P?
(a) √29m
(b) 13m
(c) √37m
(d) 6m
(e) None of these

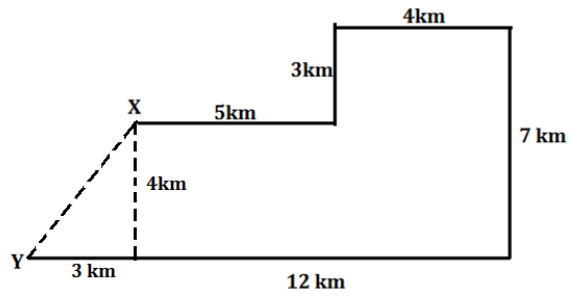



Solutions

Solutions (1-2):
S1. Ans. (d)
Sol.

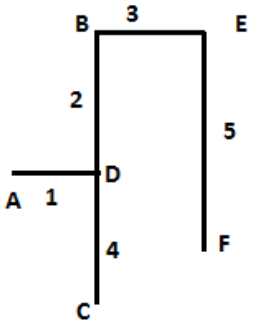



S2. Ans. (c)
Sol.

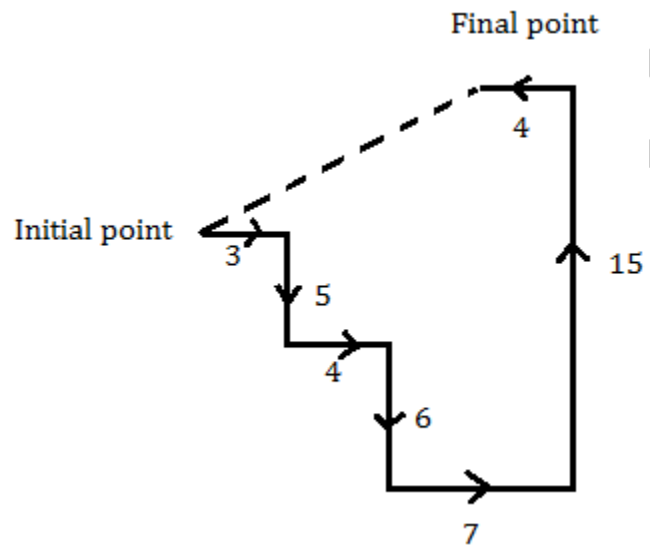



$\sqrt{4^2 + 3^2}=\sqrt{25}$=5 km

S3. Ans(d)
Sol.

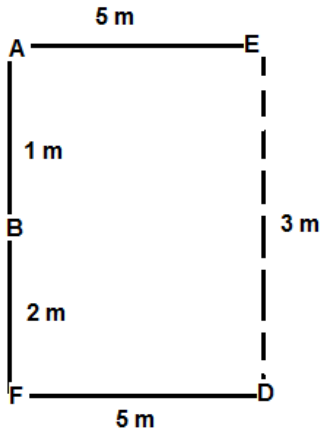



Solutions (4-6):
Sol.



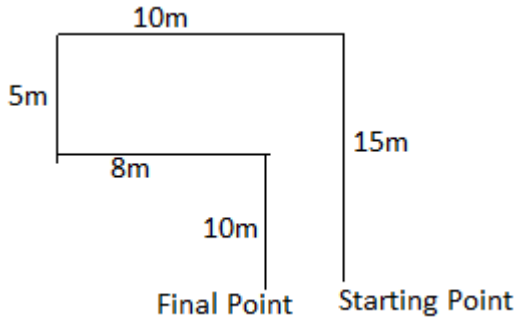

S4. Ans.(c)
S5. Ans.(d)
S6. Ans.(a)

Solutions (7-8):
Sol.

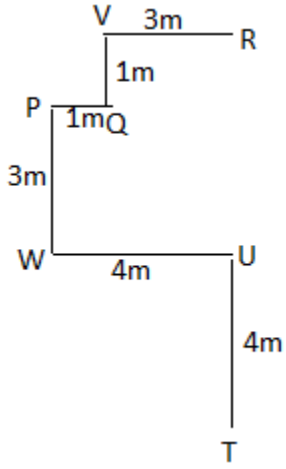



Sol.
S7. Ans.(b)
S8. Ans.(a)

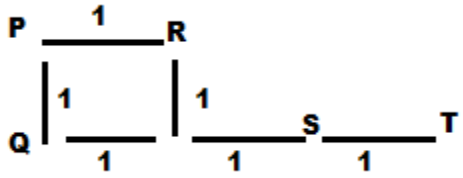
S9. Ans.(a)
Sol. Prakash is 2m west from starting point.



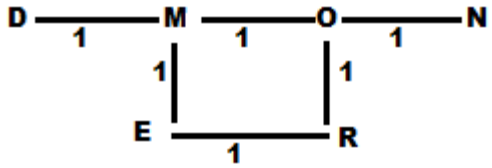

S10. Ans.(d)
Sol. The distance between T and R is = 4m+3m+1m= 8m



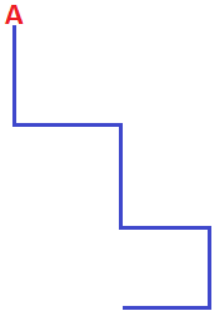

Solutions (11-12):
S11. Ans (a)
Sol.




S12. Ans. (d)
Sol.

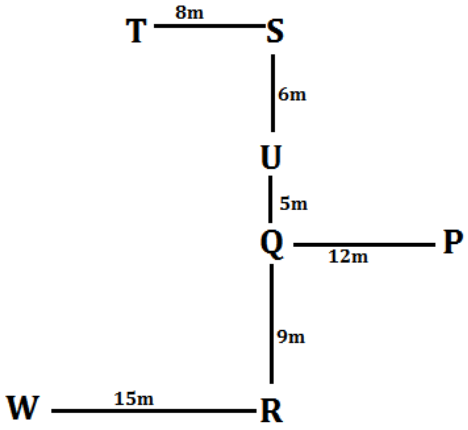



S13. Ans.(a)




Sol.

**Solution (14-15):**
**Sol.**




S14. Ans.(b)
S15. Ans.(b)

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