

Quiz Date: 8th June 2020

Direction (1-3): Study the following information carefully to answer the given questions:

Dinesh started moving in the north direction from point C to reach point F after walking 10m. From point F he takes a right turn and walks for 5m to reach point B. Now he takes a right turn and walks for 20m to reach point E, from there he takes a right turn and walks for 20m to reach point D. Now again he takes a right turn and walks for 15m to reach point G. From point G he walks towards his right to reach point A after walking 15m.

Q1. What is the shortest distance between point C and point E?

- (a) $7\sqrt{7}$ m
- (b) $4\sqrt{5}$ m
- (c) $5\sqrt{5}$ m
- (d) 10m
- (e) None of these

Q2. What distance Dinesh has to travel from point A to point B (if he start walking in north direction from point A)?

- (a) 10m
- (b) 15m
- (c) 13m
- (d) 20m
- (e) 17m

Q3. What is the direction of point G with respect to point C?

- (a) North-west
- (b) South-east
- (c) North-east
- (d) South-west
- (e) None of these

Direction (4-8): In the following questions, the symbols #, %, @ and * are used with the following meanings as illustrated below. Study the following information and answer the given questions:

Note: The directions which are given indicated exact directions.

P#Q - Q is in the south direction of P at distance of 5m.

P%Q - Q is in the north direction of P at distance of 4m

P@Q - Q is in the east direction of P at distance of 3m

P*Q - Q is in the west direction of P at distance of 6m.

P#*Q - Q is in the southwest direction of P.

P%@Q - Q is in the northeast direction of P.

Q4. If F@C#B*D#E is true, then find the shortest distance between E and F?

- (a) $2\sqrt{10}$ m
- (b) $\sqrt{103}$ m
- (c) $5\sqrt{5}$ m
- (d) $\sqrt{109}$ m
- (e) None of these

Q5. If K*L%M@N is true, then find the shortest distance between N and K?

- (a) 8m

- (b) 5m
- (c) $\sqrt{14}m$
- (d) $3\sqrt{2}m$
- (e) None of these

Q6. If C%H%J@R, then R is in which direction with respect to C?

- (a) North-east
- (b) North
- (c) South-west
- (d) South-east
- (e) None of these

Q7. If A@B#C*D#E is true, then find the shortest distance between A and C?

- (a) 4m
- (b) 8m
- (c) 7m
- (d) 6m
- (e) None of these

Q8. If F@C#B*D#E is true, then what is the direction of D with respect to C?

- (a) North-east
- (b) South-west
- (c) South-east
- (d) North-west
- (e) None of these

Direction (9-11): In the following questions, the symbols *, &, @ and \$ are used with the following meanings as illustrated below. Study the following information and answer the given questions:

Note: The directions which are given indicates exact directions.

A&B - A is in the south direction of B.

A\$B - A is in the north direction of B.

A@B - A is in the east direction of B.

A*B - A is in the west direction of B.

Q9. If J@K&M\$N is true, then N is in which direction with respect to J?

- (a) North-east
- (b) North
- (c) South-east
- (d) South
- (e) Cannot be determined

Q10. If P*Q&R*S, then S is in which direction with respect to P?

- (a) North-east
- (b) North
- (c) South-west
- (d) South
- (e) Cannot be determined

Q11. If B&W\$d@A, then W is in which direction with respect to A?

- (a) North-east
- (b) South-east
- (c) South-west

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- (d) South
- (e) Cannot be determined

Directions (12-14): Study the information carefully and answer the questions given below.

A walks for 4m from point X in the east direction. He then takes a right and a left turn and walked for 3m and 2m respectively and finally reaches point Z. B starts walking from point Y and walks for 8m in east direction, he then takes three consecutive right turns and walks 10m, 2m and 3m respectively and reaches Z.

Q12. In which direction is point Z with respect to point Y?

- (a) South-west
- (b) North-east
- (c) South-east
- (d) North-west
- (e) None of these

Q13. What is shortest distance between point X and point Y?

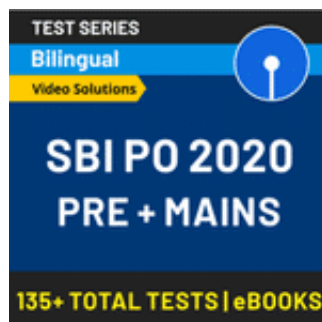
- (a) 10m
- (b) 6m
- (c) 8m
- (d) 4m
- (e) None of these

Q14. In which direction is point X with respect to point Y?

- (a) North
- (b) East
- (c) South
- (d) West
- (e) None of these

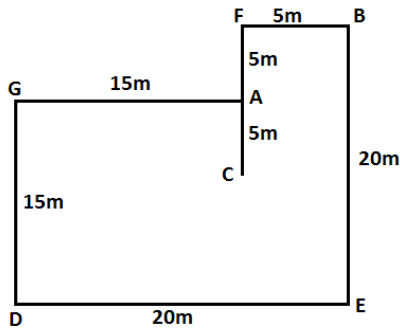
Q15. A person walks 20 m towards east direction. Then he turns to his right and walks 10 m. Then he turns left and walks 10 m and then turning his right he walks 20 m. Then he turns right again and walks 60 m. Now, he is in which direction from his starting point?

- (a) North
- (b) North-west
- (c) East
- (d) North-east
- (e) South-west



Solution

Solutions (1-3):



Sol.

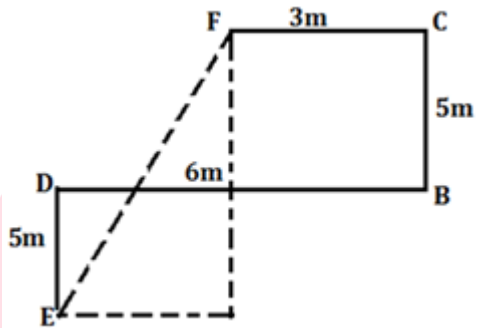
S1. Ans(c)

S2. Ans(a)

S3. Ans. (a)

Solutions (4-8):

S4. Ans. (d)

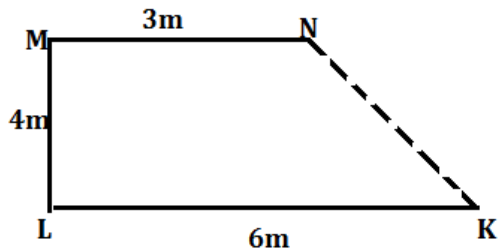


Sol.

$$EF = \sqrt{3^2 + 10^2} = \sqrt{109}m$$

S5. Ans. (b)

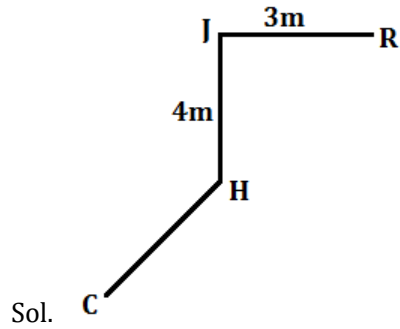
Sol.



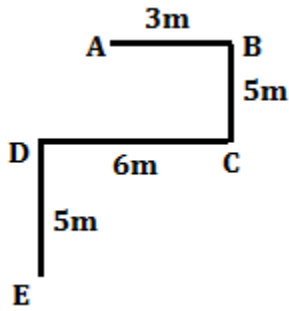
$$NK = \sqrt{3^2 + 4^2} = 5m$$

S6. Ans. (a)

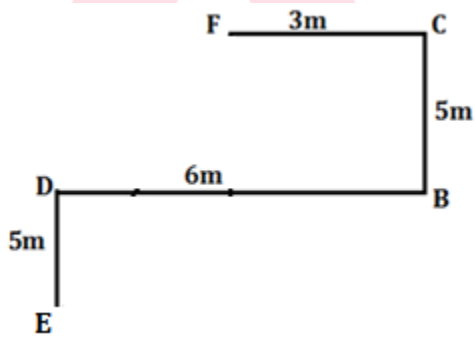




S7. Ans. (e)

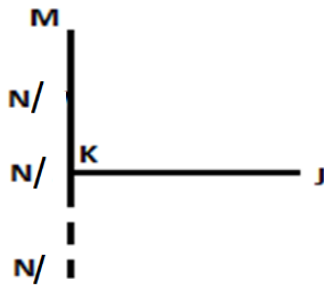


S8. Ans. (b)

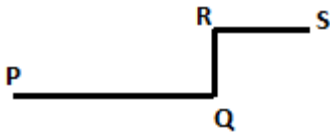


Solutions (9-11):

S9. Ans.(e)

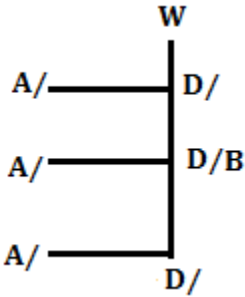


S10. Ans.(a)



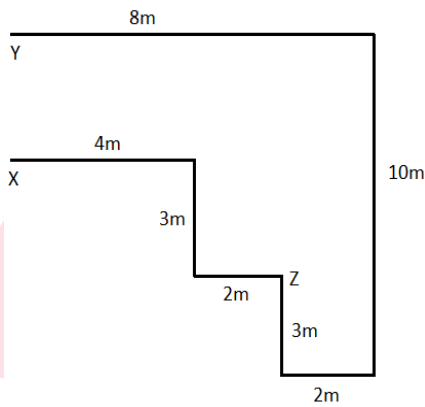
Sol.

S11. Ans. (a)



Sol.

Solutions (12-14):



Sol.

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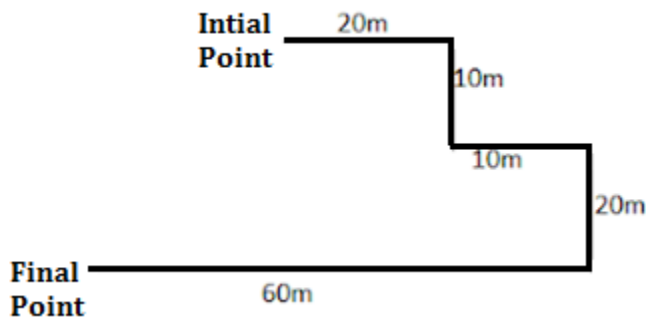
S12. Ans(c)

S13. Ans(d)

S14. Ans(c)

S15. Ans(e)

Sol. South-west





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