

## Direction Sense for IBPS PO Prelims Exam



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### Direction Sense

**Directions (1-3):** Study the following information and  
**Answer the questions below:**

Praveen starts walking from his college towards his house in north direction and walks 6 km, then turns left and walks 3 km, then turns left again and walks 5 km to point A, then he turns to his right and walks 4 km, then turns left and walks 3 km to reach point B and then turns to his left again and walks 6 km, then turns to his right and walks 12 km and finally turns right and walks 5 km and thus reaches the front gate of his house.

**1. What is the shortest distance between A and B?**

- (a) 9

- (b) 10

- (c) 25

- (d) 5

- (e) None of these

**2. Praveen's house is in what direction with respect to his college.**

- (a) South East

- (b) South West

- (c) North West

- (d) North East

- (e) None of these



## Direction Sense for IBPS PO Prelims Exam

3. Find the shortest distance between initial point and end point.
- (a) 21km
  - (b)  $\sqrt{231}$ km
  - (c) 23km
  - (d)  $\sqrt{232}$ km
  - (e) None of these
4. A man walks 8m from his house. Then he takes a left turn and walks 6m now he rotate for 45degree in the anticlockwise direction and walks 9m, finally takes a right turn and walks for 5m and now he realize that he was going towards east direction, So in which direction he started walking?
- (a) South East
  - (b) South West
  - (c) North East
  - (d) North West
  - (e) None of these
- Directions (5-6): Study the following information and Answer the questions below:**
- Akash and Sikha start cycle race from point A. They both start towards east direction. After cycling for 8m, akash takes right turn while sikha takes a left turn. They both cycle for 7m. sikha takes left and cycles for 9m and takes a right turn. Now she cycles for 5 m. Akash takes right and cycles for 9m and takes a left turn. Now he cycles for 7m. Both stop at these points.
5. How much distance towards north needs to travel Akash to meet Sikha's final position?
- (a) 15 m
  - (b) 17 m
  - (c) 20 m
  - (d) 26 m
  - (e) Cannot be determined
6. Akash is in which direction from point A?
- (a) North West
  - (b) North East
  - (c) South West
  - (d) South
  - (e) North
7. Two Person P and Q are separated by a distance of 200 meter in west – east direction respectively. Now P and Q start walking in north and south direction respectively and walked for 25 meter. Now P and Q took a right turn and walked 40m each. Now P and Q took right turn and after walking 25 meter and both of them stopped. Find the distance between them now.
- (a) 121m
  - (b) 120m
  - (c) 122m
  - (d) 123m
  - (e) 124m
- Directions (8-9): Study the following information and Answer the questions below:**



## Direction Sense for IBPS PO Prelims Exam

Amit started walking towards West direction from point A. After walking 17 m he reached point B, from there he takes a right turn and walk 11 m to reach point C. From C, he turns left and walk 9 m and reaches point D. Then, he turns left and walks 25 m to reach point E. From point E he turns left and walks 32 m. Now he reached point F and from there he turns left and walks 30 m to reach point G. From point G he turns left and walks 2 m to reach point H.

**8. What is the direction of G with respect to A?**

- (a) Northeast
- (b) East
- (c) Northwest
- (d) West
- (e) Southwest

**9. What is the distance between A and H and A is which direction with respect to H**

- (a)  $\sqrt{273}$ m southeast
- (b)  $\sqrt{270}$ m southeast
- (c)  $\sqrt{269}$ m southwest
- (d)  $\sqrt{172}$ m southeast
- (e)  $\sqrt{272}$ m southwest

**Directions (10-12): Study the following information and Answer the questions below:**

A person starts walking from P towards north direction to reach Q, which is 19m north to P. He then takes a right turn and walks 22 m to reach point R. From R, he takes left turn and walks 14m to point S, then again, he takes a left turn and walks 12m to point T. From T, he takes a

left turn and walks 18m to reach point U. He then takes a right turn and walks 15m to reach V and finally takes a left turn to reach point W, which is 18 m away from V.

**10. In which direction is point Q with respect to point U?**

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

**11. Four of the following five belongs to a group based on their directions find the one that does not belong to that group?**

- (a) P, T
- (b) U, R
- (c) Q, S
- (d) W, U
- (e) S, T

**12. How far is point P from point W?**

- (a)  $\sqrt{34}$ m
- (b)  $\sqrt{35}$ m
- (c)  $\sqrt{24}$ m
- (d)  $\sqrt{37}$ m
- (e) none of these

**Direction (13-15): Study the given information and answer the following question.**

A person starts walking towards north direction from point M, after walking 6m he takes left turn and walks



## Direction Sense for IBPS PO Prelims Exam

some distance to reach at point N. After that he takes 45 degree clockwise direction again walks 13m to reach at point O. Point P is 5m west of point N. O and P are in a straight line.

**13. What is the shortest distance between point O and point P?**

- (a) 25m
- (b) 15m
- (c) 20m
- (d) 12m
- (e) CND

**14. In which direction is point M with respect to O?**

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

**15. What is the shortest distance between point M and point N?**

- (a) 5m
- (b) 6m
- (c) 10m
- (d) 9m
- (e) CND

**Directions (16-17): Study the following information and Answer the questions below:**

Point R is 7m north of point A. Point N is 6m east of point A. Point M is 7m south of point N. Ankit starts walking in north direction from point N and covers a

certain distance then he takes a right turn, and again covers 8m to reach at point X. R and X are in straight line

**16. What is the shortest distance between point R and N and what is the direction of point R with respect to point N?**

- (a)  $\sqrt{84}$ m, South-west
- (b)  $\sqrt{74}$ m, South-west
- (c)  $\sqrt{85}$ m, North-west
- (d)  $\sqrt{64}$ m, North-east
- (e) None of these

**17. What is the shortest distance between point R and X?**

- (a) 13m
- (b) 15m
- (c) 16m
- (d) 14m
- (e) None of these

**Directions (18-20): Study the information carefully and answer the questions given below.**

Preeti starts walking towards her College from her house. The total distance between Preeti's house and her College is 70m. She walks 18m from her house towards North direction to reach a park and then she takes a right turn and walks for 10m to reach her Aunt's shop. From her Aunt shop she takes a right turn and walks for 15m to reach bus stop. From bus stop, she walks 13m towards east to reach dominos, from Dominos she takes a right





## Direction Sense for IBPS PO Prelims Exam

turn and walks 3m to reach petrol pump. From petrol pump, she walks 11m in west direction and reached her College.

**18. What is the shortest distance between College and her house?**

- (a) 13m
- (b) 9m
- (c) 12m
- (d) 15m
- (e) None of these

**19. If point A is 3m west of her College then in which direction is point A with respect to her Aunt shop?**

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

**20. In which direction is her Aunt's shop with respect to**

**Dominos?**

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

**Direction (21-23): Study the given information and answer the following question.**

A, B, C, D, E, F, G, H and I are nine persons. C is 4 km east of B. A is 4 km north of B and H is 6 km south of A.

G is 5 km west of B while D is 7 km east of G and F is 3km north of G. I is situated just in middle of B and A. distance between A and I is same as H and E.

**21. Distance between C and D is?**

- (a) 2 km
- (b) 1 km
- (c) 5 km
- (d) 1.5 km
- (e) none of these

**22. Distance between I and E is?**

- (a) 4km
- (b) 3 km
- (c) 2 km
- (d) 6 km
- (e) none of these

**23. In which direction is E with respect to D?**

- (a) Northeast
- (b) Southwest
- (c) West
- (d) North-west
- (e) None of these

**Direction (24-26): Study the given information and answer the following question.**

Point P is 20m north of point Q. Point S is 7m east of point Q. Point Z is 17m north of point J. Point J is 7m west of point Q. Point N is 9m south of point Z. Point S is 9m north of point W. Point P is 5m east of point T. Point A is towards south of J and west of W respectively.

**24. What is the shortest distance between N and W?**



## Direction Sense for IBPS PO Prelims Exam

- (a)  $\sqrt{485}$ m
- (b)  $\sqrt{486}$ m
- (c) 22m
- (d)  $\sqrt{487}$ m
- (e) None of these

**25. Point Z is in which direction with respect to S?**

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

**26. What is the direction of Point T with respect to N?**

- (a) Southeast
- (b) Southwest
- (c) Northeast
- (d) North-west
- (e) None of these

**Direction (27-30): Study the given information and answer the following question**

Eight persons i.e. L, X, C, Z, K, U, F and R are standing in a certain places. X is 7 m west of L. R is 12 m north of L. U is 19 m west of Z. K is 9 m west of C which is 7 m south of F. X is 14 m north of U. R is 13 m west of F. Y is 6 m west of Z

**27. What is the shortest distance between K and Z?**

- (a) 20 m
- (b)  $\sqrt{396}$  m

- (c)  $\sqrt{397}$  m
- (d) Cannot be determined
- (e) None of these

**28. X is in which direction with respect to C?**

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

**29. What is the shortest distance between R and K?**

- (a)  $\sqrt{80}$  m
- (b) 9 m
- (c)  $\sqrt{86}$  m
- (d)  $\sqrt{85}$  m
- (e) None of these

**30. What is the direction of R with respect of Z?**

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

**Direction (31-33): Study the given information and answer the following question.**

Nine Bike L, M, N, O, P, Q, R, S and T are parked such that: N is 6 km east of M. L is 4 km north of M. S is 8 km south of L. R is 5 km west of S. O is 11 km east of R. Q is 7 km north of R. T is parked in the middle of M and N. X is parked in the middle of S and O.

**31. What is the shortest distance between X and T?**



## Direction Sense for IBPS PO Prelims Exam

- (a) 4
- (b) 1
- (c) 3
- (d) 2
- (e) 5

**32. What is the direction of Q with respect to L?**

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

**33. What is the shortest distance between Q and L?**

- (a) 5m
- (b)  $\sqrt{24}$ m
- (c)  $\sqrt{21}$ m
- (d)  $\sqrt{27}$ m
- (e)  $\sqrt{26}$ m

**Direction (34-36): Study the given information and answer the following question.**

Eight persons from A to H are standing in such places that C is 20 m apart from B towards West. B is 30 m South with respect to A. A is 40 m towards West with respect to E. D is 50 m towards South with respect to E. F is 15 m apart from G towards North. H is 15 m towards East with respect to G. F is 40 m towards West with respect to D.

**34. In which direction is E standing with respect to F?**

- (a) North-West

- (b) North
- (c) North-East
- (d) Cannot be determined
- (e) None of these

**35. If one more person U is standing towards South-West with respect to D, then in which direction is H, standing with respect to U?**

- (a) South-West
- (b) North-East
- (c) North-West
- (d) Cannot be determined
- (e) None of these

**36. Find the shortest distance between F and C?**

- (a)  $20\sqrt{3}$ m
- (b)  $20\sqrt{2}$
- (c)  $16\sqrt{3}$ m
- (d)  $15\sqrt{2}$ m
- (e) None of these

**Direction (37-40): Study the given information and answer the following question.**

Point U is 3 meters to the north of point T. Point R is 6 meters to the south of point S. distance between S and G is 10 meters and one of them in north with respect to other. Point P is to the West of point Q. Ravi started walking from point T and after walking 4 meters in east direction he reached point S from where he kept on walking in the same direction from where he started and



## Direction Sense for IBPS PO Prelims Exam

reached point Q after walking 12 meters. Point P lies somewhere between point S and Q in a straight line.

**37. What is the shortest distance between point S and P?**

- (a) 2 meters
- (b) 3 meters
- (c) 4 meters
- (d) 5 meters
- (e) Cannot be determined

**38. Ravi is in which direction with respect to G?**

- (a) North
- (b) North -East
- (c) Cannot be determined
- (d) South-West
- (e) None of these

**39. If P is exactly middle between S and Q then what is the shortest distance between point T and P?**

- (a) 4 meters
- (b) 8 meters
- (c) 9 meters
- (d) 10 meters
- (e) 7 meters

**40. Which of the following two points are farthest from each other?**

- (a) U and T
- (b) T and S
- (c) R and S
- (d) S and G
- (e) U and S

**Direction (41-43): Study the given information and answer the following question.**

Seven cars E, F, G, H, I, J and K parked in a field. Car F parked 30 m east of Car E. Car J parked south of car F, and distance between car J & car F, is 5 m more than distance between car E and F. Car G parked such the way that it middle of car E and F, and 20 m North of car I. Distance between car I and K is 10 m less to distance between car F and Car J but I is west of K. Car H parked such way; it is south-west of car K, and 15 m away from both car I and car J south and west respectively.

**41. What is shortest distance between car F and Car K, and also Car F is in which direction with respect of car K?**

- (a)  $10\sqrt{5}$  m north
- (b)  $10\sqrt{5}$  North-west
- (c)  $10\sqrt{6}$  m North-west
- (d)  $10\sqrt{2}$  m North-west
- (e) None of these

**42. What is shortest distance between car E and car I, and car I is in which direction respect of car E?**

- (a) 25 m south-east
- (b) 25 m north-west
- (c) 25 m South
- (d) 25 m north-west
- (e) None of these

**43. If a cleaner start cleaning from car E and end with car K, and he cleaned all seven car, and all**





## Direction Sense for IBPS PO Prelims Exam

time cleaner turn to right direction when have to move next car, than what distance covered by him?

- a) 115 m
- b) 125 m
- c) 120 m
- d) 110 m
- e) None of these

**Direction (44-46):** Study the given information and answer the following question

Seven players viz. R, S, T, U, V, W and X of Cricket were standing on a ground such that R was 10m to the north of X, who was 5m west of W. S was 6m south of T, who was 8m east of X. V was 13m north of T and 4m east of U. After sometime few of them changed their position. U moved 5m towards south and then turned left and moved 2m and stopped. R moved 5m towards north-east and then moved 1m in north and stopped.

**44. In which direction is U with respect to T?**

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

**45. What is the shortest distance between U's final position and X?**

- (a) 9m
- (b) 13m
- (c) 14m

(d) 10m

(e) Cannot be determined

**46. If W moved 1m towards west then what is the straight distance between U and W's new position?**

- (a) 12m
- (b) 15m
- (c) 14m
- (d) 17m
- (e) 13m

**Directions (47-50)** Study the given information and answer the following question

- a) A! B means A is 3m west of B.
- b) A@ B means A is 6m east of B.
- c) A # B means A is 2m north of B.
- d) A \$ B means A is 4m south of B.

**47. If the expression 'D \$ W @ A # U, W! M' is true, what is the direction of M with respect to U?**

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

**48. If the expression 'F @ H, D \$ F, Z # H' is true, what is the shortest distance between Z and D?**

- (a)  $\sqrt{41}$  m
- (b)  $\sqrt{35}$  m
- (c)  $\sqrt{24}$  m
- (d)  $\sqrt{72}$  m



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(e) None of these

49. If the expression 'H ! Y \$ L @ T # J' is true, what is the direction of J with respect to Y?

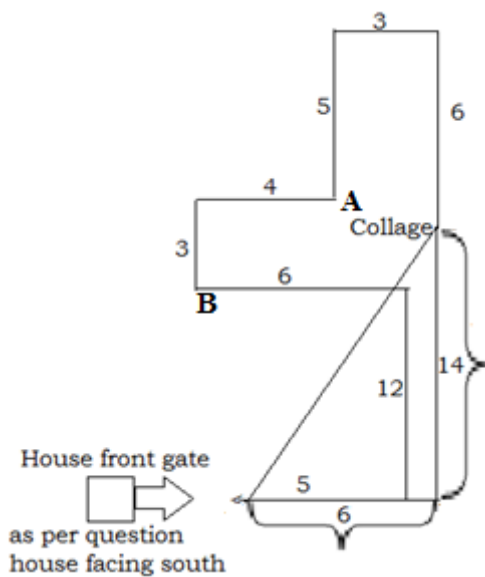
- (a) North West
- (b) South
- (c) East
- (d) South
- (e) None of these

50. P \$ R # S @ Q ! T, then R is in which direction with respect to Q and at what distance?

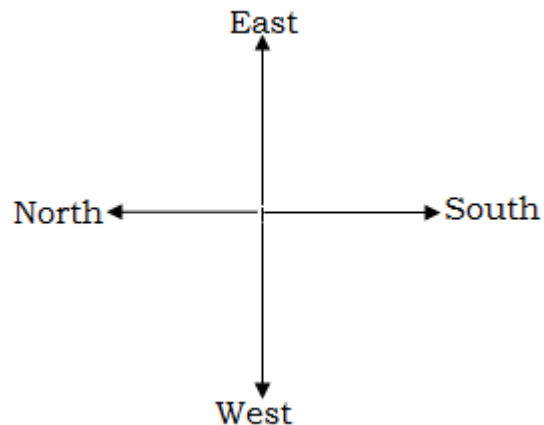
- (a)  $\sqrt{40}$ mNorth west
- (b)  $\sqrt{40}$ mNorth east
- (c)  $\sqrt{42}$ mNorth west
- (d)  $\sqrt{39}$ mNorth west
- (e) None of these

### Solution and Detailed Explanation

SOLUTION (1-3):



As Per question West is South and so on..



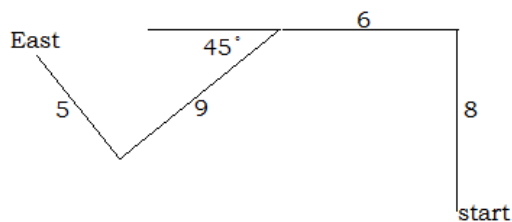
- 1. d
- 2. b
- 3. d

SOLUTION

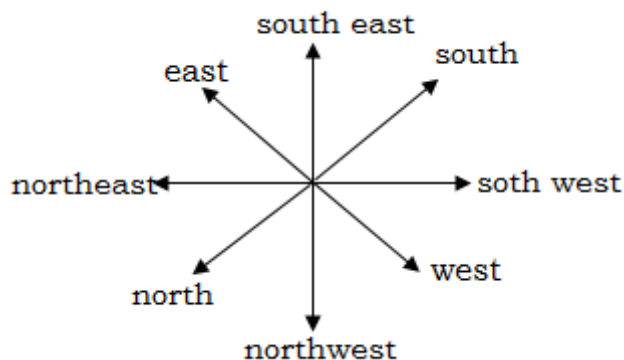
In this type of question you can start from any direction.



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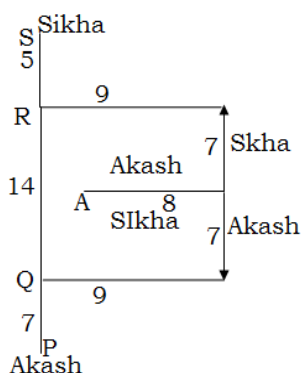


As per question final direction of that person is east  
So we change as shown in figure. His starting direction is south east.



4. a

Solution (5 -6)

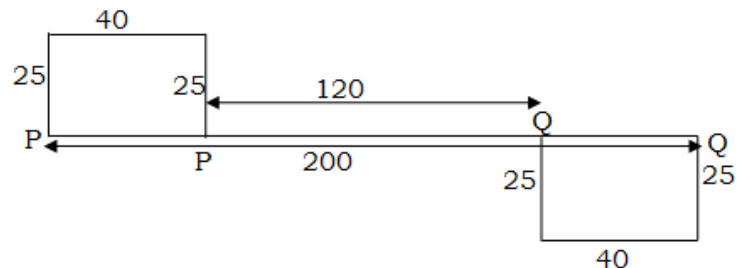


Total distance between sikha and akash is 26m

$(PQ+QR+RS) = (7+14+5)$

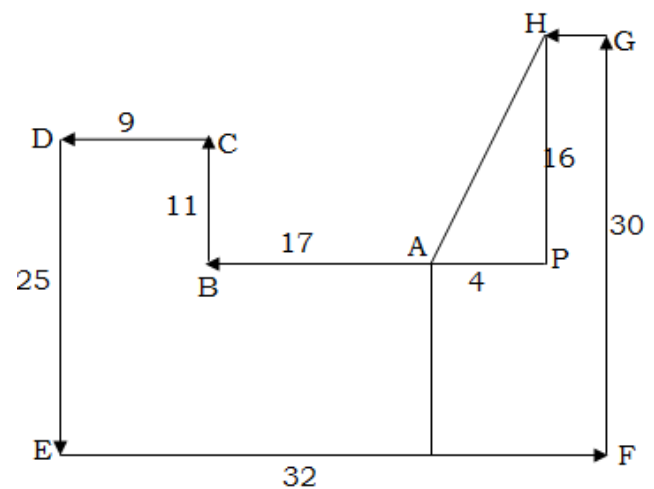
5. d

6. c



7. b

Solution (8-9)



8. a

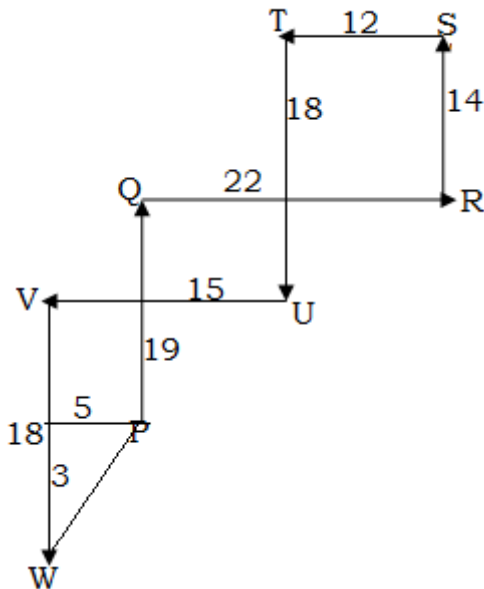
9. e

$(AH = \sqrt{(16^2 + 4^2)} = \sqrt{272m})$

Solution (10-12)



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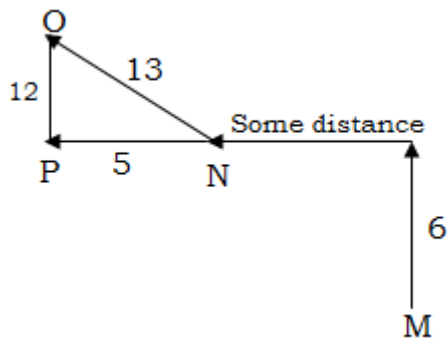
10. a

11. e

12.a

$$(PW = \sqrt{(5^2 + 3^2)} = \sqrt{(25 + 9)} = \sqrt{34}m)$$

Solution (13-15)



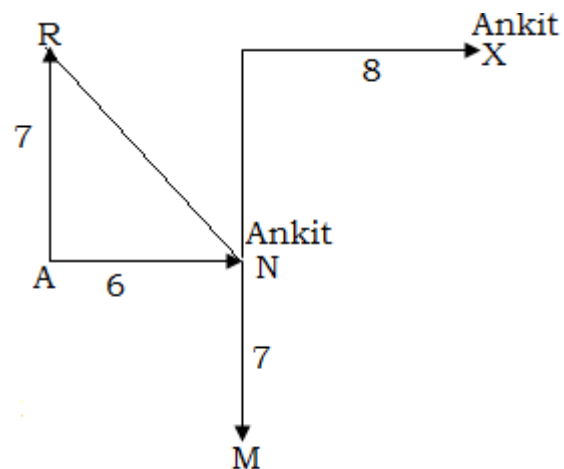
13.d

$$(OP = \sqrt{(13^2 - 5^2)} = \sqrt{(169 - 25)} = \sqrt{144} = 12m)$$

14. c

15. e

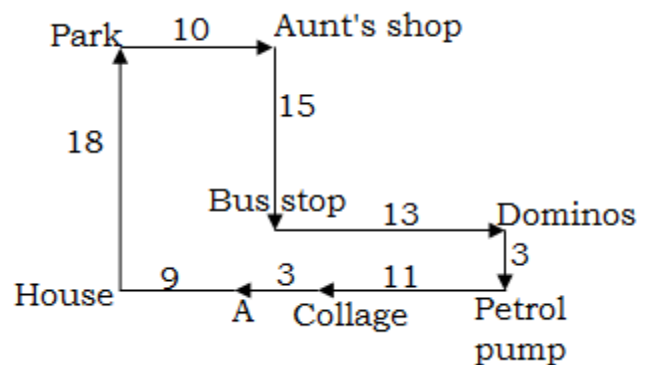
Solution (16-17)



16. c

17. d

Solution (18-20)



18. c

19. e

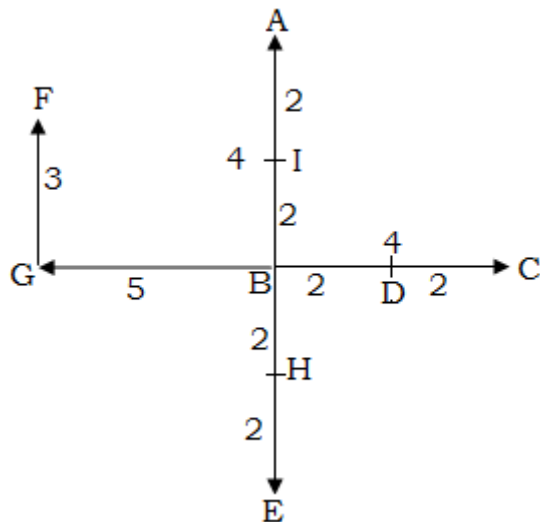
20. b

Solution (21-23)





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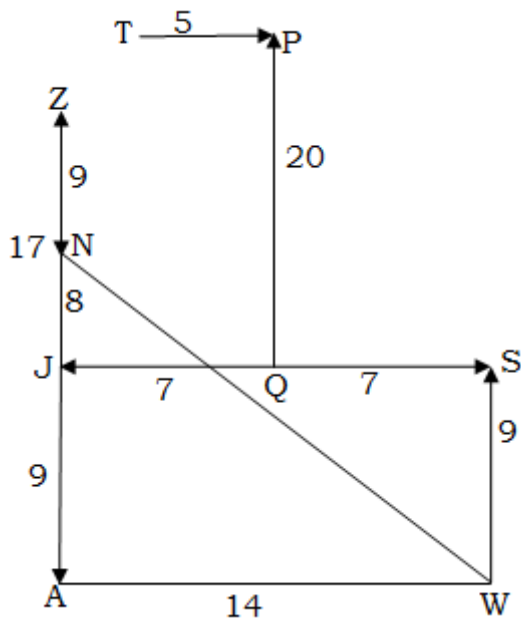


21.a

22.d

23.b

Solution (24-26)



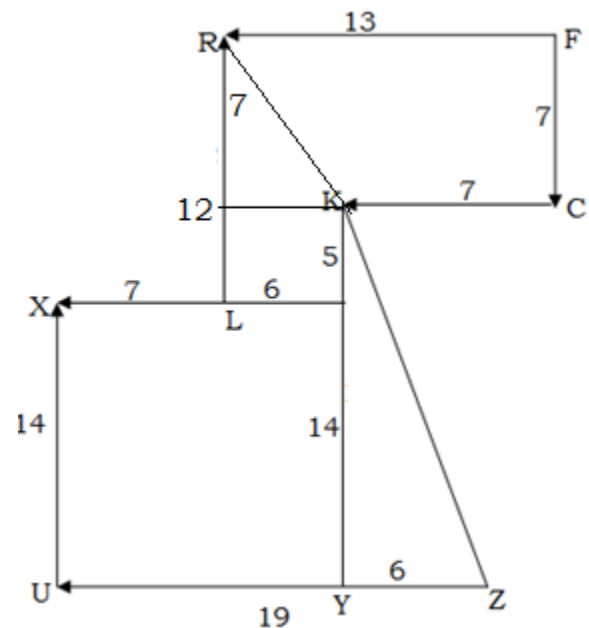
24.a

$$(NW = \sqrt{(17^2 + 14^2)} = \sqrt{(289 + 196)} = \sqrt{485}m)$$

25. b

26. c

Solution (27-30):



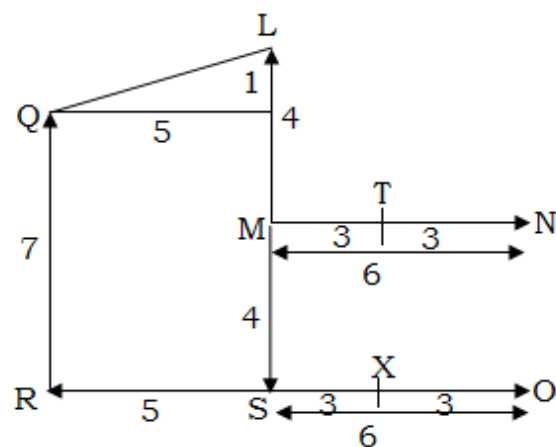
27. c

28. a

29. d

30. c

Solution (31- 33):



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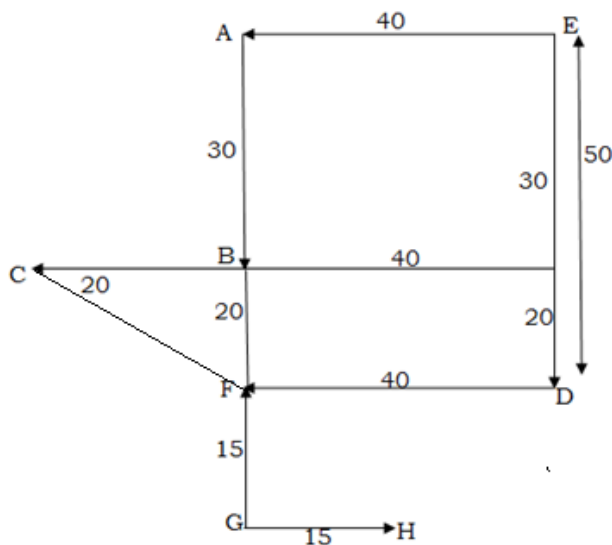
31. a

32. d

33. e

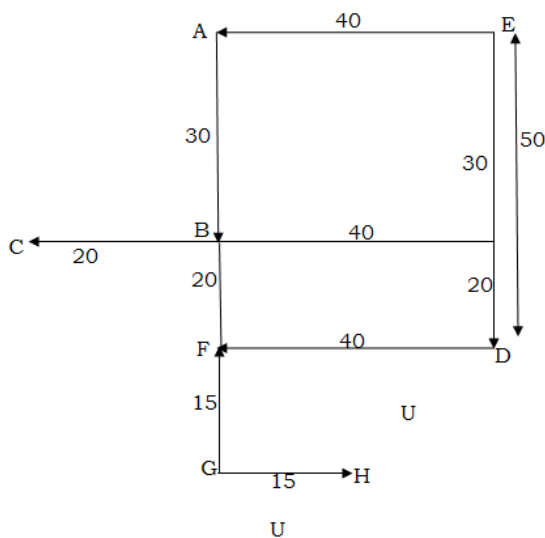
$$(LQ = \sqrt{(5^2 + 1^2)} = \sqrt{(25 + 1)} = \sqrt{26}m$$

Solution (34 - 36)



34. c

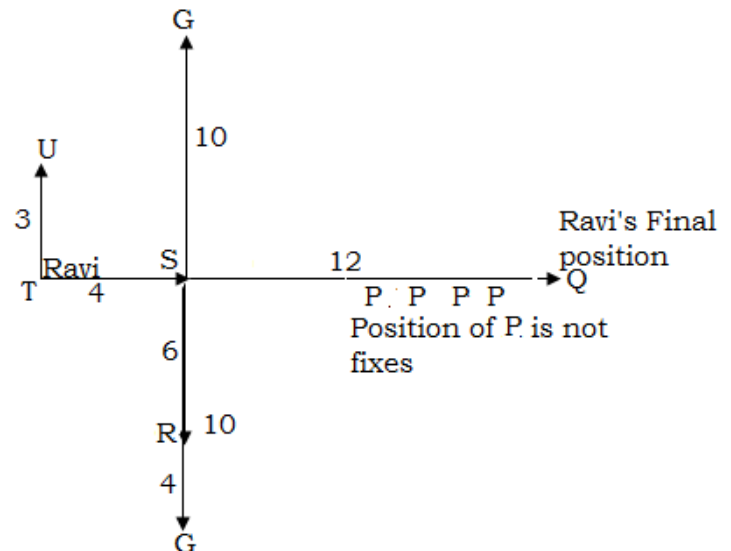
35. d (Position of U is not fixed)



36. b

$$(FC = \sqrt{(20^2 + 20^2)} = \sqrt{(400 + 400)} = \sqrt{800} = 20\sqrt{2}m$$

Solution (37- 40)

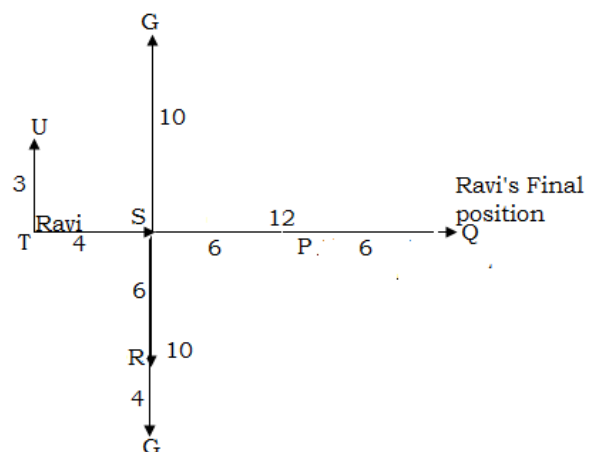


37. e

(As Position of P is not fixed so we cannot find the distance)

38. c

39. d

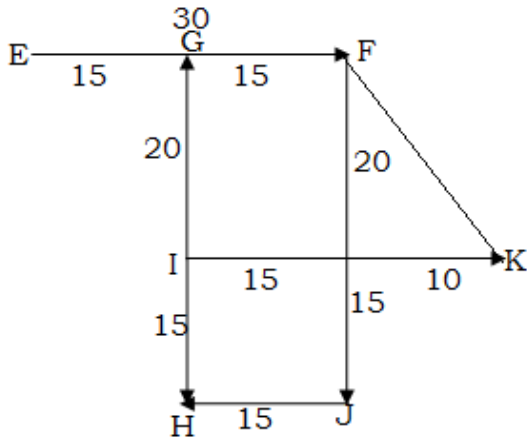


40. d

Solution (41 - 43):



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41.b

$$(FK = \sqrt{(20^2 + 10^2)} = \sqrt{(400 + 100)} = \sqrt{500} = 10\sqrt{5}m)$$

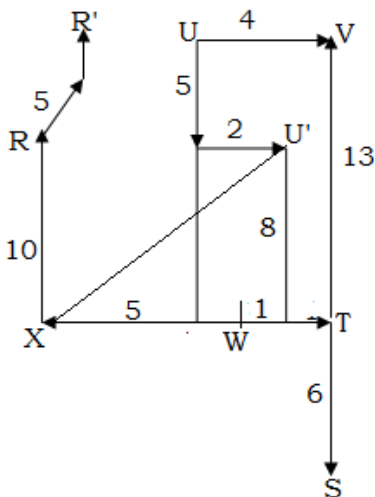
42.a

$$(EI = \sqrt{(20^2 + 15^2)} = \sqrt{(400 + 225)} = \sqrt{625} = 25m)$$

43.c

**Solution (44-46)**

After sometime few of them changed their position which will be denoted by adding ` to their names. For example - new position of R will be denoted as R`



44. b

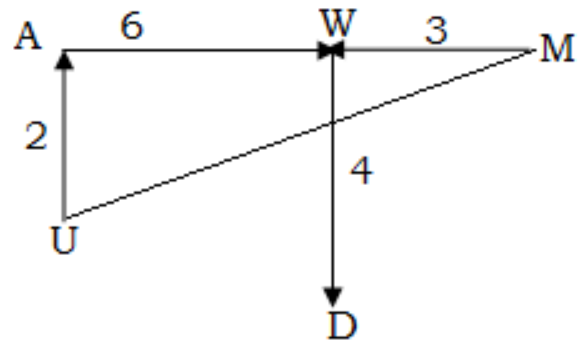
45. d

$$(U'X = \sqrt{(6^2 + 8^2)} = \sqrt{(36 + 64)} = \sqrt{100} = 10m)$$

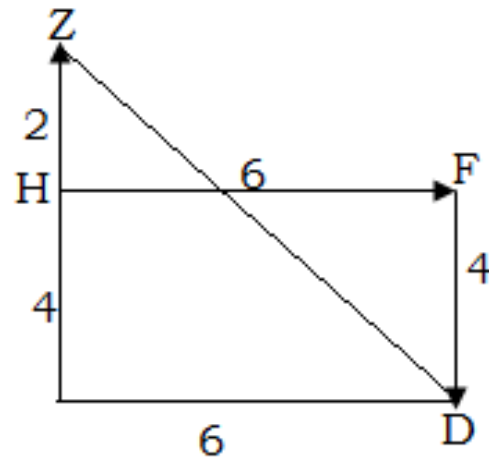
46. e

**Solution (47 -50)**

47. b



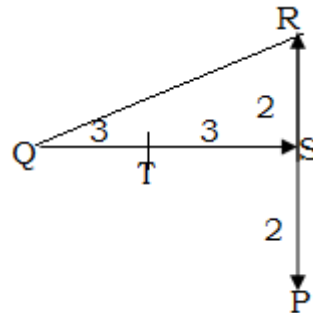
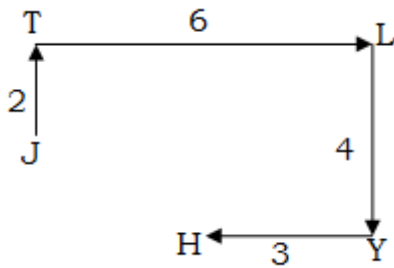
$$48. d (ZD = \sqrt{(6^2 + 6^2)} = \sqrt{(36 + 36)} = \sqrt{72}m)$$



49. a



## Direction Sense for IBPS PO Prelims Exam



50.b

$$(QR = \sqrt{(6^2 + 2^2)} = \sqrt{(36+4)} = \sqrt{40}\text{m})$$

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