DISTANCE AND DIRECTION

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

Shivani starts walking from point D. She walks 10m in South and reaches at point E then she turns right and walk 6m to reach point F. Now, she takes right turn and walks 8m and reaches at point G. Finally, she takes left turn and walk 4m to reach point H.

1. Point H is in	n which direction wi	th respect to point D?		
(a) West	(b) South-west	(c) North-west	(d) East	(e) None of these
2. If point H is following dire		th respect to point G then,	Shivani starts her jo	urney from which of the
(a) East	(b) West	(c) North	(d) South	(e) None of these
3. What is the	shortest distance bet	ween the points G and E?		
(a) 8m	(b) 9m	(c) 7m	(d) 10m	(e) None of these
Direction (4-6	6): Study the follow	ing information carefully	and answer the qu	estions given below:
to reach point his left turn an	M. After that, he taked goes 12m to reach	tes his right turn and goes a his farmhouse.	•	his left turn and goes 15m . From point Y, Abet takes
4. What is the	total distance covere	ed by Abet?		
(a) 35m	(b) 45m	(c) 57m	(d) 47m	(e) 67m
5. Point K is in	n which direction wi	th respect to Point Y?		
(a) South-west	t (b) N	North (c) South	h (d) No	rth-east (e) South-
6. If Point D is Club?	s 30m south from Ab	eet farmhouse, then find th	e shortest distance be	etween Point D and Abet
(a) 22m	(b) 25m	(c) 27m	(d) 15m	(e) 20m
Directions (7-	8): Study the follow	ving information to answ	er the given questio	ons:
left turn and w	valks for 10m to reac a right turn and walk	n the south direction and which point C and again he takes for 10m to reach point F	es right turn and wal	ks for 5m to reach point D
7. What is the	total distance between	en point E and point B?		
(a) 20m	(b) 5m	(c) 10m	(d) 7m	(e) None of these
8. In which dia	rection is point C wi	th respect to point F?		
(a) Northwest	(b) North	(c) South	(d) Northeast	(e) None of these

Direction (9-11): Study the following information carefully and answer the questions given below: Anshul is starting walk from his Office. He walks 5m in North and reaches at point S then, he turns left and walks 8m to reach at point T. Again, he turns left and walks 10m to reach at point U. Now, he turns right and walks 4m to reach his home 9. What is the direction of point S with respect to U? (d) South-west (e) None of these (a) North (b) South (c) North-west

10. What is the direction of Anshul's home with respect to his office?

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

(d) South-west

(e) None of these

11. What is the shortest distance between Anshul's office and home?

(a) 10m

(b) 11m

(c) 12m

(d) 13m

(e) None of these

Directions (12-13): Study the following information carefully and answer the questions given below:

Ashish starts his journey from point P. He walks 15m in North direction and reaches at point Q. Now, turning to the right, he walks 8m to reach point R then he takes left turn and walk 3m to reach point S. From point S, he walks 4m in west direction and reaches at point T and then from Point T, he walks 15m in south and reaches his final destination.

12. Find the shortest distance between point P and final position of Ashish?

(a) 4m

(b) 3m

(c) 5m

(d) 3.5m

(e) None of these

13. If point A is the midpoint between point T and final position of Ashish then what is the shortest distance between point Q and point A?

(a) 4m

(b) 5m

(c) $\sqrt{29.25}$ m (d) $\sqrt{20.25}$ m (e) None of these

Direction (14-16): Study the following information carefully and answer the questions given below:

Rohit starts walking from point A in the north and walks 10 m and reaches at point U, then he takes a right turn and walks for 20 m till point O. From point O he walks 2 m to his left till point P then takes a left turn and walks 25 m till he reaches his final position at point R

14. Point R is in which direction with respect to his initial point?

(a) West

(b) South-west

(c) North-west

(d) East

(e) None of these

15. If point H is in East direction with respect to point O, then in which direction is point P with respect to (c) North-west point H? (a) East (b) West (d) South-west (e) None

of these

16. What is the shortest distance between the points A and R?

(a) 8m

(b) 9m

(c) 7m

(d) 13m

(e) None of these

Direction (17-19): Study the following information carefully and answer the questions given below:

Rahul starts his journey from point P and walks 20m to his north and reaches at point Q. From Point Q he
turned to his right and walks 10m till he reaches the point R. From point R he turned to his right and walks
15m before reaching point S then he turns to his left and walks 10 m to reach point T.

	•	-	walks 10 m to reach po	oint T.
17. Point R is	in which direction w	vith respect to point Pa	?	
(a) West	(b) South-west	(c) North-west	(d) East	(e) None of these
18. If point H point T?	is in South direction	with respect to point	S, then in which direction	on is point H with respect to
(a) East	(b) West	(c) North-west	(d) South-west	(e) None of these
19. What is th	e shortest distance be	etween the points P ar	nd T?	
(a) $\sqrt{122.3}$ m	(b) √90 <i>m</i>	(c) 7m	(d) $\sqrt{425}$ m	(e) None of these
Direction (20)): Study the followi	ng information caref	fully and answer the qu	uestions given below:
		Point D is in 10m w Point C is in 8m north		s in 15m south of Point B.
20. Point C is	in which direction w	rith respect to B?		
(a) North-east	(b) South-west	(c) North	(d) South (e) N	None of these
	_	_	he turns 180° in anti cloe clock wise direction. I	ock wise direction. Again he n which direction is he
A.North West			B.South west	
C.South East			D.East	
-	-		en she turned 90° anticlon clockwise direction. In	ockwise. From here she which direction does she
A.South			B.West	
C.South East			D.North	
turned 45° clo		the same direction. Fr	g in North direction, afto om there he turned 270°	er walking some distance,he
A.North-East			B.North	
C.North-West			D.None of these	
direction.Now opposite direc	she turned 135° in to tion of her present d	he opposite direction irection.Then she turn	of her present direction,	she turned 90° in the same then she turned 180° in the wise direction and again she

A.North B.North-East C.South-East D.South

25.A traffic police is facing to East, he turned 35° in c direction, from there he turned 180° to his left hand si	lockwise direction, After that he turned 10° in the same de. In which direction is he facing now?				
A.North	B.North-West				
C.South	D.South-East				
26. One evening before sunset Rekha and Hema were was exactly to the right of Hema, which direction was A. North C. East					
27.One morning after sunrise, Vimal started to walk. During this walking he met Stephen who was coming from opposite direction. Vimal watch that the shadow of Stephen to the right of him (Vimal). To Which direction Vimal was facing?					
A. East	B. West				
C. South	D. Data inadequate				
28.One morning after sunrise, Suresh was standing far right. To which direction was he facing? A.East C.West	cing a pole. The shadow of the pole fell exactly to his B. South D. Data is inadequate				
29.One morning after sunrise Nivedita and Niharika v crossing. If Niharika's shadow was exactly to the right A.North C.East	2				
30 .One morning Udai and Vishal were talking to each other face to face at a crossing. If Vishal's shadow was exactly to the left of Udai, which direction was Udai facing? A. East B. West D. South					
DIRECTIONS(31-33) Read the given information carefully and answer the given question B is 25 m south of A. C is 10 m east of B. D is 30 m north of C. E is 7 m east of D. X is 18 m south of E. M is 12 m south of X. C is 7 m west of M.					
31. B is in which direction from Point D? (A). South (B) South-West (C) North-East	(D) South-East (E) North				
32. If Point W is 3 m to the north of A, then what is th (A) 28 m (B) 15 m (C) 21 m (D) 24 m					
33. What is distance between B and M (A) 17 m (B) 15 m (C) 21 m (D) 19 m	n (E) 13 m				

DIRECTION (34-35): Study the following information carefully to answer the given questions.

Ravi starts his journey from his home and he walks 10 km towards South direction. He takes a left turn and walks 8 km. After that he takes a right turn and walks 10 km. Now, he walks 14 km after taking a right turn. Finally he reached his office.

Q34. In which directions, Ravi's home with respect to Ravi's office? (A)South-West (B) North (C) West (D) North-east (E) North-west

Q35. How far Ravi's office with respect to Ravi's home?

(A) $2\sqrt{109}$ (B) $4\sqrt{109}$ km (C) 26 km (D) $5\sqrt{14}$ km (E) None of these