Expected Coded Direction with Distance for Upcoming Exam

CODED DIRECTION WITH DISTANCE

Direction (1-5): Read the following information carefully and answer the given questions.

X * Y means X is to the left of Y at a distance of 7m.

X # Y means X is to the south direction of Y at a distance of 5m.

X @ Y means X is to the right of Y at a distance of 3m.

X % Y means X is to the north direction of Y at a distance of 9m.

In each of the following questions initially, all persons are facing north.

1). B @ D % V # H @ K, then in which direction is K with respect to D?

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

2). M % N, Q * M, N % G, L * Q then find the minimum distance between Q and N (approx)?

a) √ 12 m
b) √ 130 m
c) √ 81 m
d) √ 49 m
e) √ 100 m

3). S @ T * R % M * U, then T is in which direction with respect to U?

a) South

b) North-West
c) West
d) North-East
e) East

4). E # F * H %G * I then find the distance between E and H?

a) √72 m
b) 9 m
c) 3√2 m
d) √74 m
e) None of these

5). R#M @ N * O % P # Q, then Q in which direction with respect to R?

a) South
b) North-West
c) West
d) North-East
e) East

Direction (6-10): In certain coding language, the directions are coded as per below conditions.

J@K means – J is North of K

J%K means – J is South of K

J#K means – J is East of K

J $ K means – J is West of K

J@#K means- J is North East K

The distance between two point is either 8 m or 11 m.

@ means the distance between the two points is 8m

% means the distance between the two points is either 11m.

JK > LM Means the distance between point J and K is greater than that of point L and M.

Example: J @ K means J is north of K and the distance between J and K is 8m.

A#B, C%B, D@E, F#E, D $ C, F@G, H#G

BC=GH, EF>FG,DC<AB=GH

6). In which direction A with respect to G?

a) @
b) %
c) @#
d) %$
e) None of these

7). What is the shortest distance between Point D and Point F?

a) √100 m
b) √64 m
c) √121 m
d) √185m
e) None of these

8). Akshay travels from point D to F and F to H.Then what is the shortest distance he travelled through this journey?

a) √370m
b) √121 m
c) √185 m
d) either a or b

e) None of these

9). If I is 11m east of D then I is in which direction of F?

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

10). which of following statement is true?

a) D@C
b) A%$ G
c) C@$G
d) H$C
e) None of these

Direction (11-14): Read the following information carefully to answer the questions that follow. The questions are based on following coding formats:

– North

@ – South

% – East

$ – West

! – 4m

& – 3m

Examples: A@B means A is South of B, A#$B means A is North-West of B, A@$!B means A is South-West of B at a distance of 4m .

Conditions given are as:

I. P#!Q

II. P#$R

III. R%&Q

IV. R@!S

V. U%&R

VI. U#!W

VII. W@$&X

11). W is in which direction with respect to R.

a) #%
b) #$
c) @$
d) @%
e) None of these

12). If W%&Z then distance between Z and S is?

a) 6m
b) 8m
c) 4m
d) 5m
e) 9m

13). P is in with direction with respect to W and what is the distance between P and W is?

a) North-East(10m)
b) North-East(8m)
c) South-East(6m)
d) North-West(10m)
e) None of these

14). If Y#&U then Y is in with direction with respect to S ?

a) North-East
b) North-East
c) South-East
d) North-West
e) Data inadequate

Direction(15-18): Read the following information carefully to answer the questions that follow. The questions are based on following coding formats:

&5 – North(10m)

@3 – South(6m)

* 4– East(8m)

% 2– West(4m)

Examples: A@3B means A is 6m South of B.

A&%6B means A is 12m North-West of B.

A@*4B means A is 8m South-West of B.

Conditions given are as:

I. S%6V

II. V@%2K

III. R@3V

IV. B&%5T

V. R@%Y

VI. T*4K

VII. V%1Y

15). B is in which direction with respect to V.

a) @%
b) &%
c) &*
d) @%
e) None of these

16). R is in which direction of T ? distance between Y and R is?

a) North-East 6m
b) South-West $\sqrt{}$40m
c) South East $\sqrt{}$4m
d) East-$\sqrt{}$40m
e) West-$\sqrt{}$36m

17) Y is in with direction with respect to S and what is the distance between S and Y is?

a) East(14m)
b) West(12m)
c) East(12m)
d) West(10m)
e) None of these

18). Which of the following pair is incorrect?

a) V is South-west of K
b) T is South-east of B
c) S is West of Y
d) T is East of R
e) None of these

Direction (19-22): Read the following information carefully and answer the given questions.

X$Y - Y is in the south direction of X at distance of 9m.
X!Y - Y is in the north direction of X at distance of 6m
X&Y - Y is in the east direction of X at distance of 13m
X^Y - Y is in the west direction of X at distance of 11m.
X!^Y- Y is in the northwest direction of X.
X$&Y- Y is in the southeast direction of X.

A$^C, C!B, B&D!E, A^B

19). A is in which direction with respect to D and what is distance between point A and point D?

a) West and 2m
b) East and 9m
c) North and 11m
d) South and 13m
e) None of these

20).What is the distance between E and B?

a) √215 m
b) √85 m
c) √205 m
d) √145 m
e) None of these

21). E is in which direction with respect to A and what is distance between point A and point E?

a) North, √40 m
b) North-west, √40 m
c) West, √40 m
d) North-east, √40 m
e) None of these

22). C is in which direction with respect to E?

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

Direction (23-25): Read the following information carefully and answer the questions given below it:

Study the following information carefully and answer the questions given below.

P%R (10)- P is 12m in south of R

P$R (15)- P is 17m in north of R

P#R (22)- P is 24m in west of R

P&R (14)- P is 16m in east of R

P%Q (22), P#S (5), Q&U(15), U$W (28), Y&P (15)

23). Q is in which direction with respect to Y?

a) North
b) West
c) North-west
d) North-East
e) South-west

24). What is the distance between Q and S?

a) 27
b) 22
c) 25
d) 17
e) 24

25). What is the direction of W with respect to S?

a) North
b) South-East
c) West
d) East
e) South-West

Direction (26-30): Read the following information carefully and answer the questions given below it:

Nine people – A, B, C, D, E, F, G, H and I were stood at some distance from each other in a grocery area. C was 18 m $ to that of B. A was 8 m % of that of B and H was 14 m # of that of A. G was 10 m %@ of that of H while D was 20 m # of that of G and F was 10 m % of that of G. I was situated just in the middle of B and C while E was just in the middle of G and D.

Here, % means North, # means South, $ means East and @ means West

%$ means North-East ,#@ means south-West.

For example,

X%$Y means Y is to the North-East of X

Y%$X means X is to the North-East of Y

26). What is the direction of I with respect to F?

a) South-East
b) South –west
c) North
d) North – west
e) South

27).What is the shortest distance between person B and person G?

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

28). Which of the following persons stand in the straight line?

a) G-A-B
b) C-H-I
c) G-E-D
d) A-B-H
e) Both 3 and 4

29). What is the direction of E with respect to I?

a) South
b) South – west
c) North – west
d) North
e) None of these

30). What is the difference between the sum of distance of FG+GE and BI+GB ?

a) 17
b) 03
c) 14
d) 13
e) None of these

Direction (31-35): Study the information below and answer the following questions

Y % Z – Y is north of Z.

Y # Z – Y is south of Z.

Y @ Z – Y is east of Z.

Y$ Z – Y is west of Z.

X * YZ – X is midpoint of vertical straight line YZ.

X! YZ – X is midpoint of horizontal straight line YZ.

A is 8m@B. C!AB. D is 5m%C. E is 10m@D.

F is 6m%E.G is 5m$F. H*GI.J is4m@H. G is 12m % I.

31). Amar moves from E to H, then H to G,then G to F ,what is the total distance covered by the Amar?

a) 10m
b) 12m
c) 16m
d) 18m
e) None of these

32). If there is a bus stand X at 14m west to G , then if a Akshay moves from G to X, then Akshay is standing at what distance from point B?

a) 12m
b) 6m
c) 5m
d) 11m
e) None of these

33). If Sunil moves to school Z from point F; where Z is 13m towards east from H, then at what distance from F?

a) 8m
b) 5m
c) 3m
d) 10m
e) None of these

34). In which direction is H with respect to A?

a) North
b) East
c) North-East
d) North-West
e) South West

35). If Bus travels from point I to point H and then to point D,the D to point C and again towards point B;what is total distance covered by bus?

a) 16m
b) 11m
c) 10m
d) 25m
e) None of these

Direction (36-39): Study the information below and answer the questions.

G & H (99m) – G is 77m south of H.

G % H (65m) – G is 43m east of H.

G @ H (113m) – G is 91m north of H.

G # H (66m) – G is 44m west of H.

G&# H (49m)-G is 27m South-west of H.

A @ B (25m), C # D (38m), B % C (42m), E % D (52m), G # F(64m), G & H (37m), I & E (28m), F @ I (30m) ,W@F(39m)

36). If X @G (23m) then what is distance A and X?

a) 26m
b) 42m
c) 12m
d) 16m
e) None of these

37). What is the direction of A with respect to W?

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

38). What is the sum of distance between E-F ,D-B and E-I?

a) 14m
b) 18m
c) 12m
d) 8m
e) None of these

39)D is in which direction to G?

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

Direction (40-43): Study the following information carefully and answer the questions given below:

The symbols @, © , π, $, % and # are used with the following meanings illustrated.

D$C means D is south C.(4m/6m)

D#C means D is west C.(3m/7m)

D@C means D is east C .(4m/6m)

D%C means D is north C.(3m/7m)

DπC means D is south-east C.(4m/6m)

D©C means D is south-west C.(3m/7m)

M @ L, N % M, O π N, P % O, Q @ P and R $ Q.

QR > PQ, PQ=LM, NO > PQ, NM >QR , NM=PO

40). What is the distance between N and O ?

a) 3m
b) 4m
c) 6m
d) 7m
e) None of these

41). In which direction point O is with respect to point R?

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

42). what is total distance between point N and point R?

a) 21m
b) 18m
c) 27m
d) 22m

e) 23m

Direction (43): If S is 10m to the south-East of point Q;then R is in which direction with respect to point S and what is shortest distance between point S and point R ?

a) South (12m)
b) North-West (27m)
c) South-East (36m)
d) North
e) West-(8m)

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

X>Y - Y is in the north direction of X at distance of 12m
X*Y - Y is in the east direction of X at distance of 9m
X<Y - Y is in the south direction of X at distance of 12m.
X%Y - Y is in the west direction of X at distance of 9m.
X<*Y - Y is in the southeast direction of X.
X<%Y - Y is in the southwest direction of X.
X>%Y - Y is in the northwest direction of X.
X>*Y - Y is in the northeast direction of X.

A>*B, B<*C, C<D%E, F%C, F<%D, E>A

44). What is the direction of point E with respect to F?

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

45). What is the shortest distance between C and E?

a) 16m
b) 15m
c) 17m
d) 25m
e) None of these

46). What is the difference of distance between point DA and Point AC?

a) 7m
b) 9m
c) 5m
d) 6m
e) None of these

Direction (47-50): Read the following information carefully and answer the questions that follow:

E% F means E is to the right of F at a distance of 6m.

E @ F means E is to the left of F at a distance of 7m.

E $ F means E is to the north of F at a distance of 8m.

E # F means E is to the south of F at a distance of 9m.

E * F means E is to the east of F at a distance of 10m.

E ! F means E is to the west of F at a distance of 11m.

All people are facing North direction.

47). E % F # C ! D, then D is in which direction with respect to E?

a) North
b) North-East
c) North-West
d) South-West

e) South

48). A # B % C # D, then D is in which direction with respect to A?

a) North
b) North-East
c) South
d) West
e) North-West

49). E $ F @ G # H, then H is in which direction with respect to E and what is distance between H and E?

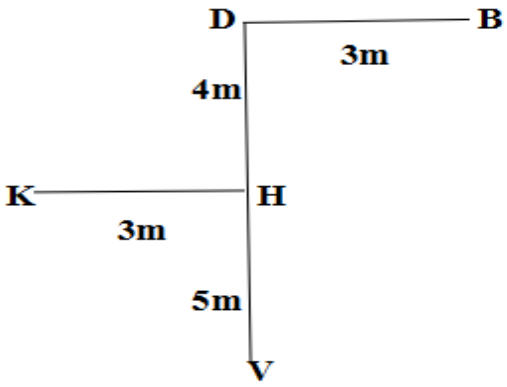
a) North, 1m
b) South, 7m
c) North-East, √50m
d) East, √43m
e) West, √8m

50). P ! R * S # Q @ T, Then T is in which direction with respect to P ?

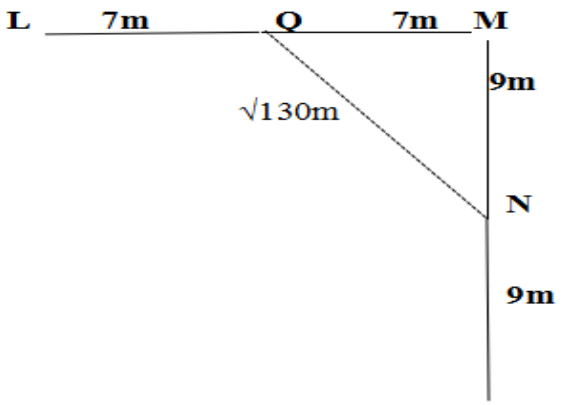
a) North
b) South-West
c) West
d) East
e) North-East

Solution and Explanation

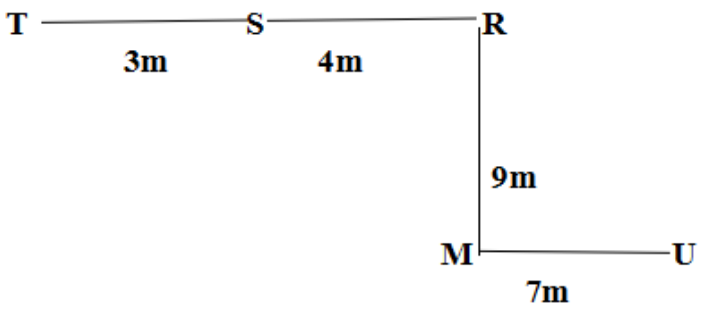
1. C



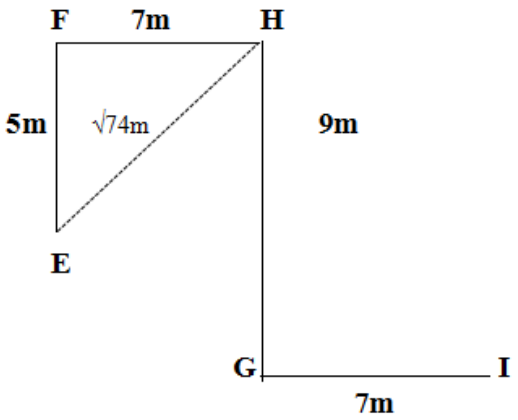
2. B



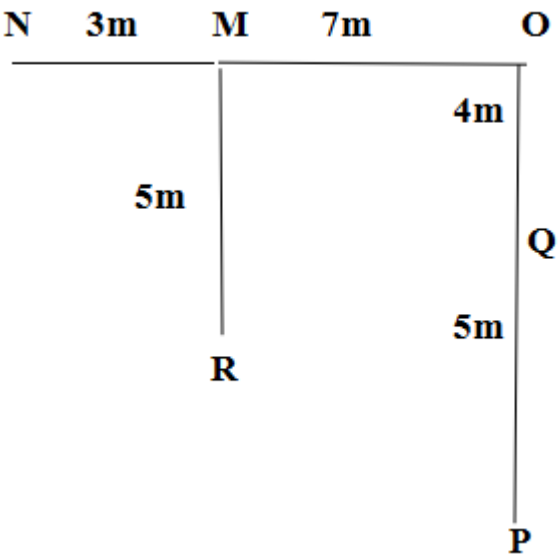
3. B



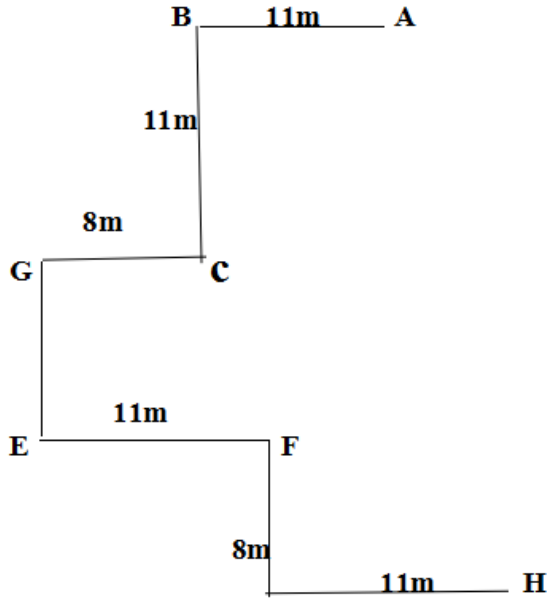
4. D



5. D



Solution (6-10):



6.C

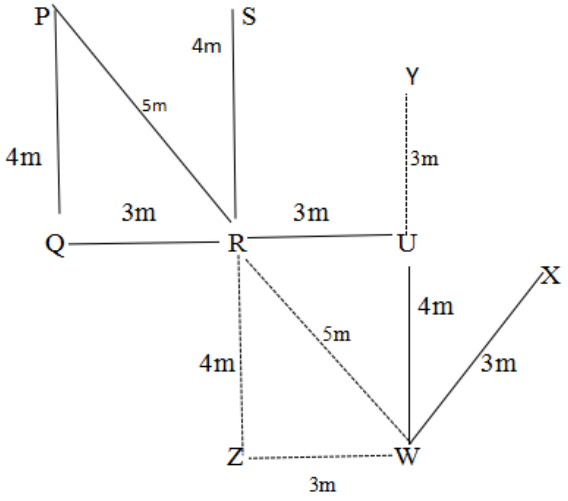
7. D

8. A

9. A

10. C

Solution (11-14):



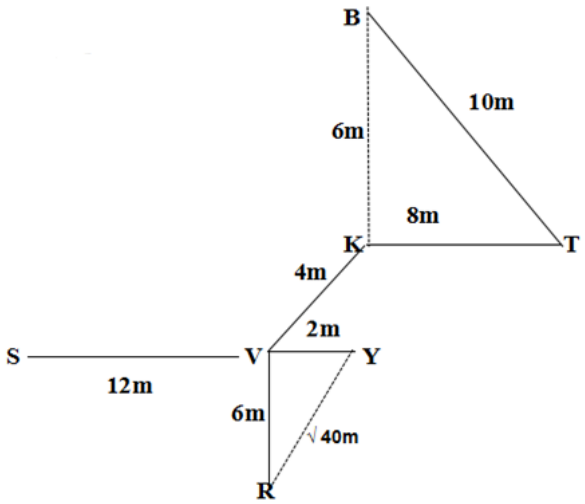
11.D

12.B

13.D

14.C

Solution(15-18):



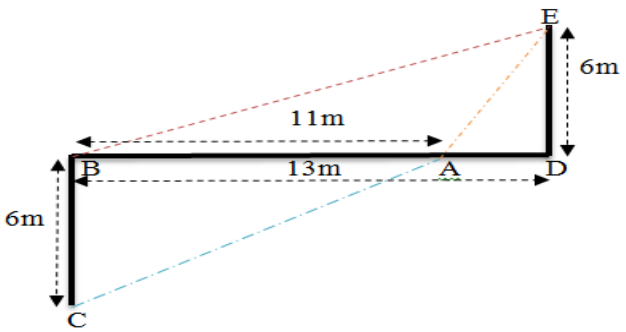
15.C

16.B

17.A

18.D

Solution(19-22):



Now, in ΔBDE by using pythagoras theorem,
$(BE)^2 = (BD)^2 + (ED)^2$
$(BE)^2 = (13)^2 + (6)^2$
$(BE)^2 = (169) + (36)$

BE = √205 m

Now, in ΔABC by using pythagoras theorem,
$(AC)^2 = (BC)^2 + (AB)^2$
$(AC)^2 = (6)^2 + (11)^2$
$(AC)^2 = (36) + (121)$

BE = √157 m

Now, in ΔADE by using pythagoras theorem,
$(AE)^2 = (AD)^2 + (ED)^2$
$(AE)^2 = (2)^2 + (6)^2$
$(AE)^2 = (4) + (36)$

AE = √40 m

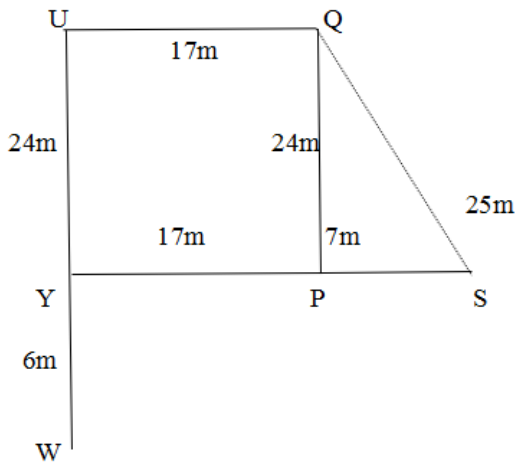
19. A

20. C

21. D

22. B

Solution(23-25):

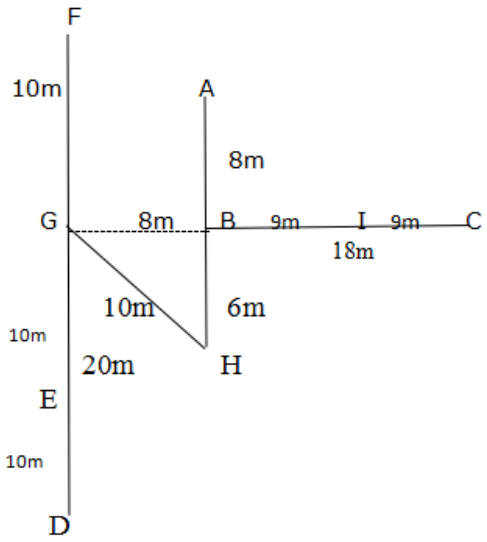


23. D

24. C

25. E

Solution(26-30):



26.A

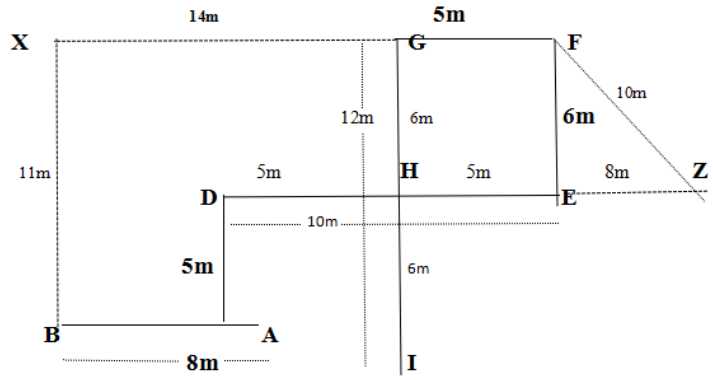
27.E

28.E

29.B

30.B

Solution(31-35):



31.C

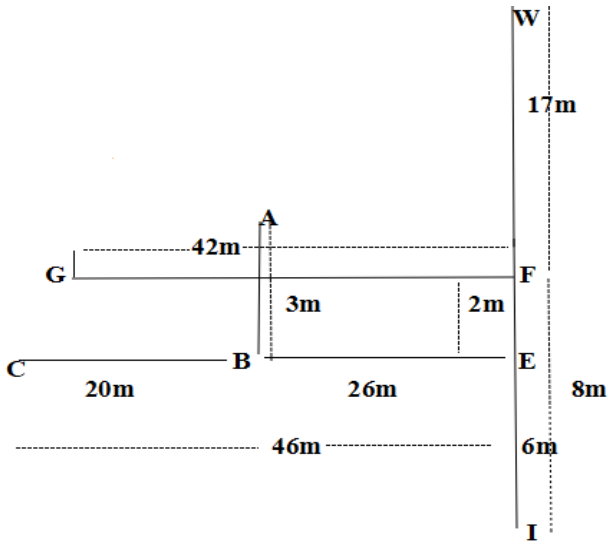
32.D

33.D

34.C

35.D

Solution(36-39):



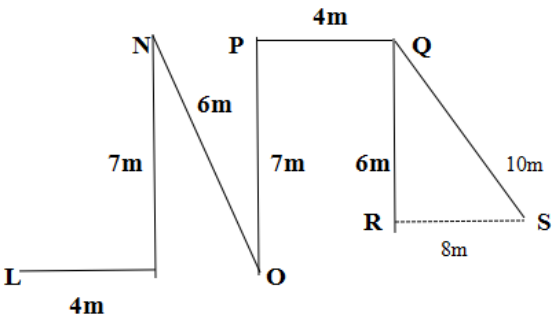
36.B

37.C

38.C

39.E

Solution(40-43):



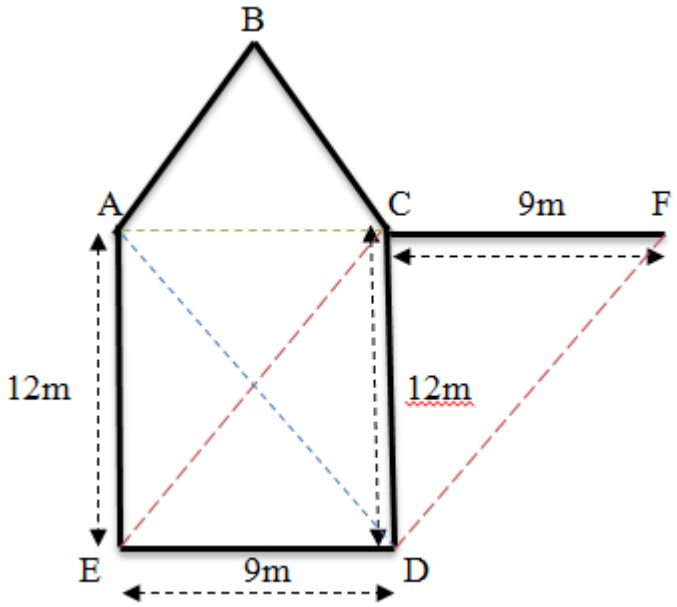
40.C

41.D

42.E

43.E

Solution(44-46):



Now, in ΔDCF by using pythagoras theorem,
$(FD)^2 = (CD)^2 + (CF)^2$
$(FD)^2 = (12)^2 + (9)^2$
$(FD)^2 = (144) + (81)$
$FD = \sqrt{225}$ m=15m

Now, in ΔCDE by using pythagoras theorem,
$(EC)^2 = (DC)^2 + (ED)^2$
$(EC)^2 = (12)^2 + (9)^2$
$(EC)^2 = (144) + (81)$
$EC = \sqrt{225}$ m=15m

Now, in ΔAED by using pythagoras theorem,
$(AD)^2 = (AE)^2 + (ED)^2$
$(AD)^2 = (12)^2 + (9)^2$
$(AD)^2 = (144) + (81)$
$AD = \sqrt{225}$ m=15m

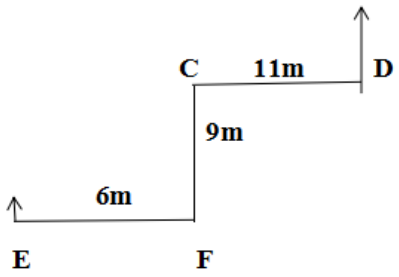
Distance between point DA and Point AC=15-9=6m

44.C

45.B

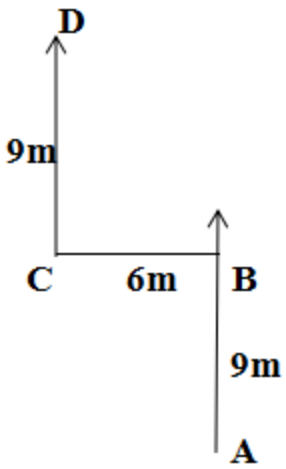
46.D

47.B

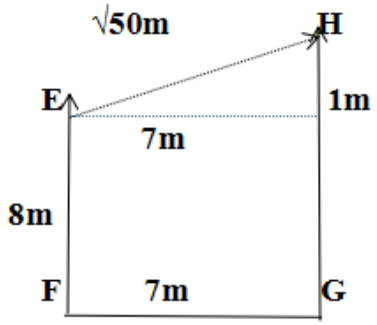


48.E

Expected Coded Direction with Distance for Upcoming Exam



49. C



50.E