DIRECTION & DISTANCE SENSE TEST BASED VERBAL REASONING PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

For All Competitive SSC, Bank, IBPS, UPSC, Railway, IT & Other Govt. Exams

Created By Careericons Team

DIRECTIONS:

Study the following information carefully and answer the questions that follow.

A country has the following types of traffic signals.

  i. 3 green lights = go at 60 kmph speed
  ii. 2 green lights = go at 40 kmph speed
  iii. 1 green light = go at 20 kmph speed
  iv. 3 red lights = stop
  v. 2 red lights = turn left
  vi. 1 red light = turn right

A person starts driving from a point in West direction and he encounters the following traffic signals:

  1. Starting point – 1 green light;
  2. After 15 minutes, 1st signal – 2 red & 2 green lights;
  3. After 24 minutes, 2nd signal – 1 red & 3 green lights;
  4. After 45 minutes, 3rd signal – 1 red & 2 green lights;
  5. After 18 minutes, 4th signal – 3 red lights;

Q1. Find the total distance he covered up to the last signal.

a) 75 km

b) 70 km

c) 76 km

d) 78 km

e) 79 km

Q2. After passing the third signal if the person encounters fourth signal after half an hour, then what is his final position with respect to the starting point?

a) 4 km to the north and 45 km to the west

b) 4 km to the north and 50 km to the west

c) 4 km to the south and 50 km to the east

d) 55 km directly to the north-west

e) None of these

Q3. If instead of starting in West direction, the man starts in South direction, then what is his position with respect to the starting point?

a) 50 km to the south and 4 km to the east

b) 50 km to the north and 4 km to the west

c) 50 km to the south and 4 km to the west

d) 54 km directly to the north-west

e) None of these

Q4. If after the first signal, 2nd signal: 2 red and 2 green lights, and 3rd signal: 1 red and 3 green lights, then what is the distance covered up to the last signal?

a) 67 km

b) 68 km

c) 69 km

d) 60 km

e) 65 km

Q5. If the person stops at 3rd signal, then what is his final position with respect to his starting position?

a) 50.5 km to the south-west

b) 52.5 km to the north-east

c) 50 km to the north-west

d) 52.5 km to the south-west

e) 50.5 km to the south-east

Q6. Rimpy on the way to her school starts walking from her home towards south. After walking 15 meters she turns towards north. After walking 20 meters, she turns towards east and walks 10 meters. She then turns towards south and walks 5 meters. How far is she from his original position and in which direction?

a) 10 meters, North-East

b) 10 meters, East

c) 10 meters, West

d) 10 meters, South- East

e) None of these

Q7. Starting from a point P, Sachin walked 20 metres towards South. He turned left and walked 30 metres. He then turned left and walked 20 metres. He again turned left and walked 40 metres and reached a point Q. How far and in which direction is the point Q from the point P?

a) 10 metres West

b) 20 metres West

c) 10 metres North

Image not found or type unknown

d) 10 metres East

Q8. Town D is 13 Km. towards the East of town A. A bus starts from town A travels 8 Km. towards West and takes a right turn. After taking the right turn, it travels 5 Km. and reaches town B. From town B the bus takes a right turn again, travels 21 Km. and stops. How far and towards which direction must the travel to reach town D?

a) 5 Km. towards South

b) 13 Km. towards South

c) 21 Km. towards South

d) 5 Km. towards West

e) None of these

Q9. A person starts walking in south direction and walks a distance of 7 meters. Now he took a left turn and walk 6m. Again he takes a left turn and walk 15m and reached a point P. Find the distance between starting point and P and in which direction is the person from the initial point.

a) 10m, south west

b) 10m, north east

c) 10m, south east

d) 10m North West

e) None of these

Q10. A man walk 30 meters toward north direction, then turn to his left and walk 10 meter. Again he turn his left and walk 10 meter. How far is he from his initial point and in which direction?

a) $ 10?5 m, $north-west

b) $ 10?2 m,$ south-west

c) $ 10?5 m,$ south-west

d) $ 5?5 m,$ north-west

e) None of these

DIRECTIONS:

Bala walked 25km towards west, took a left turn and walked 15km. He again took a left turn and walked 30km. He then took a right turn and stopped.

Q11. Now he was facing which direction ?

a) North

b) South

c) West

d) East

e) None of these

Q12. Instead of turning right at the end if he took left and walked 20km, what is the shortest distance to his starting point?

a) $5? 2 km$

b) $7? 2km$

c) $3? 7km$

d) $2? 5km$

e) None of these

DIRECTIONS:

Read the given information carefully and answer below Question.-

1. There are 7 family members P, Q, R, S, T, U and V standing in ground in which there are 2 married couples.
2. P is sister of Q who is maternal grandson of T.
3. Maternal grandfather of Q is standing 3m to the right of Q who is facing north.
4. The father of S has 2 maternal grandchildren.
5. V is facing north.
6. V is standing 4m to the south of maternal grandson of U.
7. S is 2m to the right of V.
8. P is 1m south of S and 1m west of U.
9. R is sister-in-law of V and standing 9m to the north of her mother.
10. V is father of P.
11. U is a Female.

Q13. Maternal grand daughter is standing in which direction w.r.t his husband?

a) south-west

b) north-west

c) south-east

d) south

e) None of these

Q14. What is direction and distance and relationship of S with respect to P?

a) 1m north, Daughter

b) 1m north, Mather – in law

c) 1m north, Mother

d) 1m south, Sister

e) None of these

Q15. What is a minimum distance between V and His father – in – Law?

a) 6m

b) 4m

c) 3m

d) 2m

e) None of these

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Answers to the above questions :

Q1. Answer: (d)

Starting in West direction: 1 green light means 20 km/hr

So 15 minutes at 20km/hr, means covers $15/60$ x 20 = 5 km

Next, 2 red & 2 green lights, means turn left and 24 minutes at 40 km/hr

So now distance covered = $24/60$ x 40 = 16 km

Now for next 45 minutes, 1 red & 3 green lights, means turned right and drove at 60 km/hr,

so covered $45/60$ x 60 = 45 Km

Next – 1 red & 2 green lights, turned right and 18 minutes at 40 km/hr

So covered = $18/60$ x 40 = 12 km. Next 3 red lights so stopped

So total distance = 5+16+45+12 = 78 km

Q2. Answer: (b)

So at last 1 red & 2 green lights, turned right and 30 minutes at 40 km/hr

So covered $30/60$ x 40 = 20 km

Q3. Answer: (a)

Q4. Answer: (c)

Starting in West direction: 1 green light means 20 km/hr

So 15 minutes at 20km/hr, means covers $15/60$ x 20 = 5 km

Next, 2 red & 2 green lights, means turn left and 24 minutes at 40 km/hr

So now distance covered = $24/60$ x 40 = 16 km

Now for next 45 minutes, 2 red & 2 green lights, means turned left and drove at 40 km/hr,

so covered $45/60$ x 40 = 30 Km

Next – 1 red & 3 green lights, turned right and 18 minutes at 60 km/hr

So covered = $18/60$ x 60 = 18 km. Next 3 red lights so stopped

So total distance = 5+16+30+18 = 69 km

Q5. Answer: (d)

Starting in West direction: 1 green light means 20 km/hr

So 15 minutes at 20km/hr, means covers $15/60$ x 20 = 5 km

Next, 2 red & 2 green lights, means turn left and 24 minutes at 40 km/hr

So now distance covered = $24/60$ x 40 = 16 km
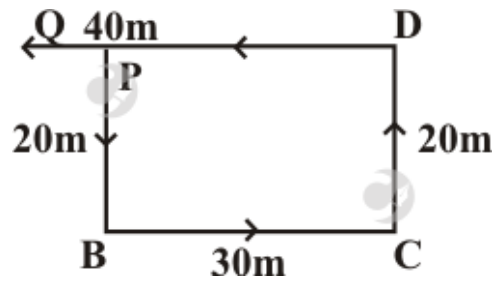
Now for next 45 minutes, 1 red & 3 green lights, means turned right and drove at 60 km/hr,

so covered $45/60$ x 60 = 45 Km

Stopped here

Q6. Answer: (b)

Q7. Answer: (a)

The movements of Sachin are as shown in figure (P to B, B to C, C to D and D to Q).
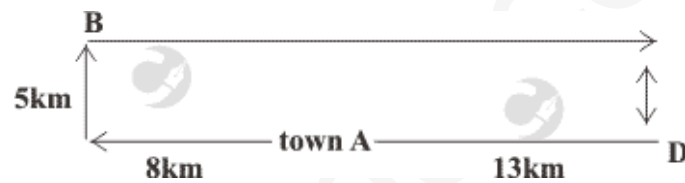
Clearly, distance of Q from P = PQ

PQ = (DQ – PD) = (DQ – BC) = (40 – 30) m = 10 m.

Also, Q is to the West of P.

So, Q is 10 m West of P.

Q8. Answer: (a)

5 km towards south.

Q9. Answer: (b)

Q10. Answer: (a)

Q11. Answer: (b)

Q12. Answer: (a)

$X^2 = 5^2 + 5^2$

$X = ? 50 = 5? 2$

Q13. Answer: (a)

Q14. Answer: (c)

Q15. Answer: (e)

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