

Quiz Date: 12th March 2020

Directions (1-5): Study the following information carefully and answer the questions given below.

Six cars i.e. P, Q, R, S, T and U are parked in a parking area facing north at a distance which is a successive multiple of 6 in an increasing order from the left. Car Q is second to the right of Car P. The total distance between Car T and U is 150m. Only two Car stands in between Car P and Car R. The total distance between Car T and S is 42m. Now Car S starts moving towards north direction after moving 20m its takes a right turn from point O and move 48 m to point J and again take a right turn and move 35 m and stops at point K. Car P starts moving in west direction and after going 9m it turns left and move 20m to point L and then again turn left and move 69m and stops there at point F. Car T starts moving in north direction and reach point M after moving 5m then, it takes a right turn and moves 30m and stops at point N.

Q1. What is the shortest distance between Point K and point F?

- (a) 10m
- (b) 11m
- (c) 12m
- (d) 13m
- (e) None of these

Q2. In which direction is point N with respect to J?

- (a) southwest
- (b) North
- (c) Southeast
- (d) Northwest
- (e) None of these

Q3. If Car R, moves 5m in the north direction and reaches point G then point N is in which direction with respect to point G?

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

Q4. What is the total distance between Car P and Car Q?

- (a) 74m
- (b) 50m
- (c) 44m
- (d) 48m
- (e) None of these

Q5. In which direction is point L with respect to point M?

- (a) North

- (b) Southwest
- (c) South east
- (d) East
- (e) Northwest



Directions (6-10): Study the following information carefully to answer the given questions. A number arrangement machine when given an input line of numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input: 95 11 76 21 89 42 64 31

Step I: 2 76 21 89 42 64 31 14

Step II: 3 2 76 42 64 31 14 17

Step III: 4 3 2 42 64 14 17 13

Step IV: 6 4 3 2 14 17 13 10

Step IV, is the last step.

Input: 57 21 16 49 23 29 36 42 45 51

Q6. How many steps are required to complete the given arrangement?

- (a) III
- (b) V
- (c) IV
- (d) VI
- (e) None of these

Q7. How many elements are there between '3' and '42' in step-II?

- (a) Two
- (b) One
- (c) Three
- (d) Four
- (e) None of these

Q8. Which number would be at the fourth position from the right end in the penultimate step of the output?

- (a) 7

- (b) 6
- (c) 13
- (d) 12
- (e) None of these

Q9. What is the sum of the third element from the left in step III and 2nd from the right in step IV?

- (a) 17
- (b) 16
- (c) 30
- (d) 10
- (e) None of these

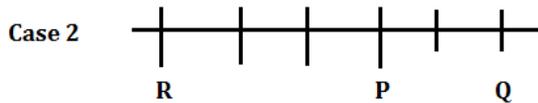
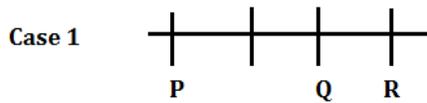
Q10. What is the difference between the third element from the right in step IV and the second element from the left in step III?

- (a) 2
- (b) 4
- (c) 8
- (d) 3
- (e) None of these

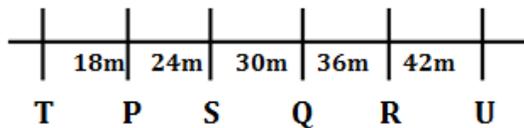
Solutions
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Solution (1-5):

By using, Car Q is second to the right of Car P. Only two Car stands in between Car P and Car R. We get two possibilities:

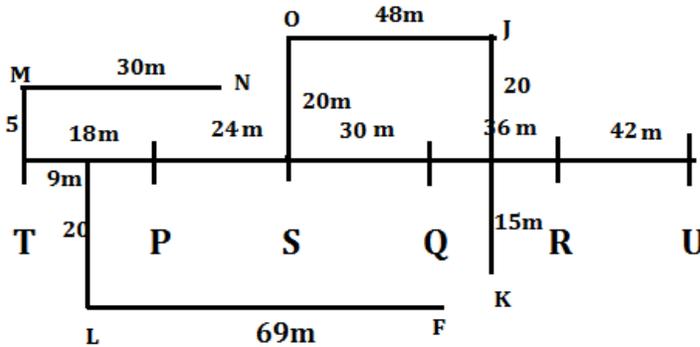


The total distance between Car T and U is 150m from this case 2 gets eliminated. The total distance between Car T and S is 42m and the final arrangement will be final as



Now Car S starts moving towards north direction after moving 20m its takes a right turn from point O and move 48 m to point J and again take a right turn and move 35 m and stops at point K. Car P starts moving in west direction and after going 9m it turns left and move 20m to point L and then again turn left and move 69m and stops there at point F. Car

T starts moving in north direction and reach point M after moving 5m then, it takes a right turn and moves 30m and stops at point N.



S1.Ans(d)

S2.Ans(a)

S3.Ans(d)

S4.Ans(e)

S5.Ans(c)

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Solutions (6-10):

Sol. Logic: In the given Input-Output the numbers are arranged from both the ends simultaneously. In first step- Lowest number is arranged from the left end and highest number is arranged from the right end. In second step- 2nd lowest number is arranged from the left end and 2nd highest number is arranged from the right end and so on... Also while arranging the numbers, the numbers which are arranged from both end are replaced by the addition of the digits of that number.

Input: 57 21 16 49 23 29 36 42 45 51

Step I: 7 21 49 23 29 36 42 45 51 12

Step II: 3 7 49 23 29 36 42 45 12 6

Step III: 5 3 7 29 36 42 45 12 6 13

Step IV: 11 5 3 7 36 42 12 6 13 9

Step V: 9 11 5 3 7 12 6 13 9 6

S6.Ans(b)

S7.Ans(e)

S8.Ans(d)

S9.Ans(e)

S10.Ans(d)



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