

Quiz Date: 12<sup>th</sup> April 2020

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

Certain number of persons are sitting around a circular table, which has a circumference of 637 cm. All the persons are facing towards the center. They are sitting at a certain distance to each other which are consecutive multiple of seven. A sit 4<sup>th</sup> to the right of E. Only one person sits between A and J. K sits 4<sup>th</sup> to the left of M. Two person sits between M and F. G sits second to the left of H. H is not the immediate neighbour of A. Only one person sits between H and D and between C and D. Distance between H and D is 98cm. Distance between B and I is 105cm. Only one person sits between F and E, who sits on the immediate left B. The distance between M and B is 77cm. Distance between L and K is not more than 22cm.

Q1. Which of the following represents the distance between I and G?

- (a) 147
- (b) 172
- (c) 119
- (d) 133
- (e) 155

Q2. Who among the following are immediate neighbor of I?

- (a) A, F
- (b) G, A
- (c) H, M
- (d) A, D
- (e) None of these

Q3. Who among the following sits 4<sup>th</sup> to the right of the one who is 6<sup>th</sup> to the left of M?

- (a) C
- (b) K
- (c) D
- (d) L
- (e) none of these

Q4. Which of the following represents the distance between H and L?

- (a) 98
- (b) 112
- (c) 42
- (d) 108
- (e) 119

Q5. Four of the following belongs to a group find the one that does not belong to that group?

- (a) B, I
- (b) K, L

- (c) A, H
- (d) B, M
- (e) C, E

Direction (6-10): A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

**Input- 24 qesf plau 19 29 dfrs 32 xtul.**

Step I: 100 fhtu 24 qesf plau 29 32 xtul.

Step II: 121 rnzf 100 fhtu 24 qesf 32 xtul.

Step III: 36 svuh 121 rnzf 100 fhtu 32 xtul.

Step IV: 25 zvfn 36 svuh 121 rnzf 100 fhtu.

Answer the following questions based on the following input: -

**Input- 28 rufs 11 mpke 47 luae vibe 36.**

Q6. What will be the difference of the number which is third from the left end of step I and which is fourth from the right end of step III?

- (a) 24
- (b) 28
- (c) 26
- (d) 23
- (e) None of these

Q7. What will be the square of the difference of fifth number from the left end of step II and third number from right end of step I?

- (a) 324
- (b) 400
- (c) 361
- (d) 444
- (e) None of these

Q8. What will be the third step of the given input?

- (a) Step III- 81 tfhu 121 ormv 4 nfzv vibe 36.
- (b) Step III- 100 tfhu 121 ormv 9 nfzv vibe 36.
- (c) Step III- 100 tfhu 144 ormv 4 nfzv vibe 36.
- (d) Step III- 100 tfhu 121 ormv 4 nfzv vibe 36.
- (e) None of these

Q9. Which of the following word/number will be third to the left of sixth from the left end in step III?

- (a) tfhu
- (b) 121
- (c) rufs

- (d) nfzv  
(e) None of these

Q10. What will be the square of the addition of first number from the left end of step I and second number from right end of step IV?

- (a) 49  
(b) 64  
(c) 81  
(d) 121  
(e) None of these

Direction (11-14): **There are two rows given and to find out the resultant of a particular row we need to follow the following steps: -**

Step 1: If an odd number is followed by an even number then the resultant will be the addition of both the numbers.

Step 2: If an even number is followed by a perfect square (excluding 1) then the resultant will be the positive difference of that square number and the even number.

Step 3: If an even number is followed by another even number (but not a perfect square) then the resultant will be the addition of both the numbers.

Step 4: If an even number is followed by an odd number (but not a perfect square) then the resultant comes by multiplying the numbers.

Step 5: If an odd number is followed by another odd number then the resultant will be the division of first number by the second number.

Q11. Find the sum of the resultant of two rows?

6	3	4
2	9	7

- (a) 22  
(b) 11  
(c) 4  
(d) 15  
(e) None of the above

Q12. Find the difference between the resultant of first and second row.

14	49	26
17	22	13

- (a) 58  
(b) 52  
(c) 64  
(d) 61  
(e) None of the above

Q13. Find the value X if the multiplication of the resultant of two rows is 246?

64	18	1
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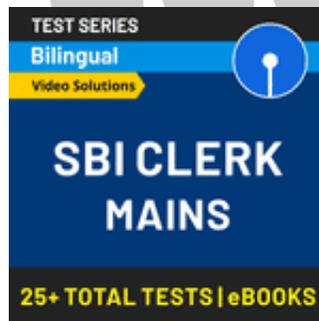
- 17    16    X  
 (a) 10  
 (b) 11  
 (c) 9  
 (d) 6  
 (e) None of the above

Q14. Find the multiplication of the resultant of two rows?

- |    |     |    |
|----|-----|----|
| 81 | 104 | 37 |
| 56 | 18  | 3  |
- (a) 74  
 (b) 3  
 (c) 72  
 (d) 212  
 (e) 1110

Q15. If all the vowels of the word '**SCRABBLE**' are replaced by its succeeding letter according to the English alphabet and all the consonant are replaced with their previous letter according to the English alphabet and then all the letters are arranged in the alphabetical order the how many letters are there between the third letter from the left and second letter from the right in the English alphabetic series?

- (a) 11  
 (b) 13  
 (c) 14  
 (d) 15  
 (e) None of these

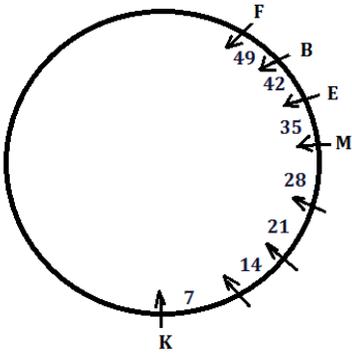


### Solutions

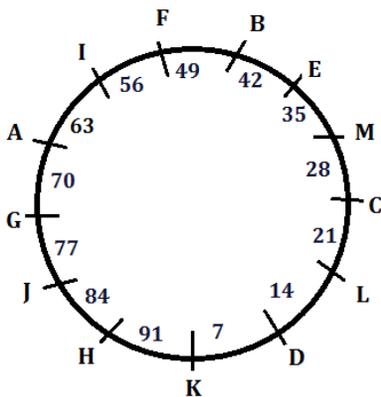
Solutions (1-5):

Sol.

K sits 4<sup>th</sup> to the left of M. Two person sits between M and F. Only one person sits between F and E, who sits on the immediate left B. The distance between M and B is 77cm.



A sits 4<sup>th</sup> to the right of E. Only one person sits between A and J. G sits second to the left of H. H is not the immediate neighbour of A. Only one person sits between H and D and between C and D. Distance between H and D is 98cm. Distance between B and I is 105cm. Distance between L and K is not more than 22cm.



- S1.Ans(d)
- S2.Ans(a)
- S3.Ans(d)
- S4.Ans(b)
- S5.Ans(c)

Solutions (6-10):

Sol. In the given Input-Output one word and one number is being arranged simultaneously in each step.

For Words- In first step- The word which comes first according to alphabetical series will be arranged from left end such that the consonants are replaced by its second succeeding letter and all the vowels are replaced with its opposite letter according to the English alphabet. Then the next word according to alphabetical order will be arranged in second step from the left end and so on.....

For numbers- All the numbers are arranged with the one word simultaneously in each step, such that first the prime numbers are arranged in ascending order and then non-prime numbers will be arranged in ascending order. Each of the number will be arranged by

following logic as number will be replaced with the square of the addition of the digits of that number after arrangement.

**Input- 28 rufs 11 mpke 47 luae vibe 36.**

Step I: 4 nfzv 28 rufs mpke 47 vibe 36.

Step II: 121 ormv 4 nfzv 28 rufs vibe 36.

Step III: 100 tfhu 121 ormv 4 nfzv vibe 36.

Step IV: 81 xrdv 100 tfhu 121 ormv 4 nfzv.

S6.Ans.(a)

S7.Ans.(c)

S8.Ans.(d)

S9.Ans.(b)

S10.Ans.(b)

Solutions (11-14):

S11. Ans.(d)

Sol.

In row-1

Even number is followed by an odd number so =  $6 * 3 = 18$

18 4

Even number is followed by an even number so =  $18 + 4 = 14$

In row-2

Even number is followed by a perfect square so =  $9 - 2 = 7$

7 7

Odd number is followed by an odd number so =  $7/7 = 1$

So, the sum of resultant of two rows =  $14 + 1 = 15$

S12. Ans.(a)

Sol.

In row-1

even number is followed by an perfect square number so =  $49 - 14 = 35$

35 26

Odd number is followed by an even number so =  $35 + 26 = 61$

In row-2

Odd number is followed by an even number so =  $17 + 22 = 39$

39 13

Odd number is followed by another odd number so =  $39/13 = 3$

So, the difference of the resultant of the both rows =  $61 - 3 = 58$

S13. Ans.(b)

Sol.

In row-1

Even number is followed by another even number so =  $64 + 18 = 82$

82 1

Even number is followed by an odd number so  $= 82 * 1 = 82$

If the multiplication of resultant of two rows is 246 then resultant of row-2 must be 3

In row-2

Odd number is followed by an even number so  $= 17 + 16 = 33$

$$33 \quad X$$

If resultant is 3 therefore,

Odd number is followed by another odd number so  $= 33 / X = 3$

So, the value of 'X' must be = 11

S14. Ans.(e)

Sol.

In row-1

Odd number is followed by even number so  $= 81 + 104 = 185$

$$185 \quad 37$$

odd number is followed by an odd number so  $= 185 / 37 = 5$

In row-2

Even number is followed by an even number so  $= 56 + 18 = 74$

$$74 \quad 3$$

Even number is followed by an odd number so  $= 74 * 3 = 222$

So the multiplication of resultant of the two rows  $= 222 * 5 = 1110$

S15. Ans(c)

Sol.

**S C R A B B L E**

**R B Q B A A K F**

**A A B B F K Q R**

There are total 14 letters between 'B' and 'Q'.



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