

Quiz Date: 1<sup>st</sup> August 2020

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

Certain number of boxes are placed one above another. Each box has different number of Pens. Four boxes are placed between A and E. Not more than three boxes are placed above A. Three boxes are placed between E and the box which has 24 pens which is placed above E. The Box S is placed at topmost position. The number of boxes placed between box A and the box which has 40 pens is half of the number of boxes placed below box E. There are four boxes are placed between the box which has 24 pens and the box which has 16 more pens than that box. The number of boxes are placed between E and T is one less than the number of boxes between T and the box which has 54 pens. Box Q is placed 3<sup>rd</sup> from the bottom most position. The box which has 54 pens is placed just above Q. The number of boxes is placed between T and Q is the four time than the boxes placed between S and A.

Q1. How many boxes are placed between S and T?

- (a) Eight
- (b) Nine
- (c) Six
- (d) Five
- (e) None

Q2. If box M is placed between T and the box which has 40 pens, then find the position of the box M from the top?

- (a) 6<sup>th</sup>
- (b) 8<sup>th</sup>
- (c) 12<sup>th</sup>
- (d) 10<sup>th</sup>
- (e) 4<sup>th</sup>

Q3. What is the total number of boxes in the arrangement?

- (a) Eighty
- (b) Nineteen
- (c) Eighteen
- (d) Twenty
- (e) Can't be determined

Q4. The number of boxes placed between S and E is same as the number of boxes placed between Q and the box \_\_?

- (a) S
- (b) The box which has 24 pens
- (c) A
- (d) The box which has 40 pens
- (e) Both (a) and (d)



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Q5. What is the product of the number of pens of boxes which is placed 4<sup>th</sup> from the topmost position and 4<sup>th</sup> from the bottommost position?

- (a) 1296
- (b) 1225
- (c) 3025
- (d) 788
- (e) None of these

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

Input: 3562 7512 7584 3594 7659 2845

Step I: 5326 5721 5748 5349 6795 8254

Step II: 6532 7521 8754 9543 9765 8542

Step III: 3266 2507 4377 3181 3255 4271

Step IV: 2507 3181 3255 3266 4271 4377

Step V: 14 13 15 17 14 21

Step VI: 27 28 32 31 35

Answer the following questions based on the following input.

Input: 7536 1758 4562 3528 9576 3256

Q6. Which of the following is the difference between 2<sup>nd</sup> number from left end in step III and 3<sup>rd</sup> number from right end in step II?

- (a) 5277
- (b) 5496
- (c) 5615
- (d) 5834
- (e) None of these

Q7. Which of the following is the 4<sup>th</sup> number from right end in final step?

- (a) 30
- (b) 31
- (c) 32
- (d) 34
- (e) None of these

Q8. Which of the following is the addition of 4<sup>th</sup> number from left end in step III and 2<sup>nd</sup> number from right end in step IV?

- (a) 6542
- (b) 7183
- (c) 7537
- (d) 7181
- (e) None of these

Q9. Which of the following is the multiplication of 2<sup>nd</sup> number from left end in penultimate step and 3<sup>rd</sup> number from right end in final step?

- (a) 416
- (b) 570
- (c) 608
- (d) 646
- (e) None of these

Q10. Which of the following number is 3<sup>rd</sup> to the right of 2<sup>nd</sup> from the left end in step V?

- (a) 13
- (b) 15
- (c) 17
- (d) 18
- (e) None of these

Direction (11-13): Study the following information carefully and answer the questions given below:

Six persons are sitting in a triangular table facing towards center. Three persons sit at middle of the side of triangle and remaining three persons sit at corner of triangle. They like different items.

Two persons sit between P and the person who likes MN. R sits 2<sup>nd</sup> to the right of S. Two persons sit between S and the person who likes YZ. Q and T are immediate neighbors of P. Two persons sit between U and the person who likes DE. Two persons sit between the one who likes DL and the person who likes XY. T doesn't like DL and XY. R doesn't like XY. Person who likes XN doesn't sit at corner.

Q11. Who sits 2<sup>nd</sup> to the right of the person who like DL?

- (a) Q
- (b) Person who likes DE
- (c) Person who likes XY
- (d) S
- (e) None of these

Q12. Which of the following item Q likes?

- (a) XY
- (b) YZ
- (c) DL
- (d) XN
- (e) None of these

Q13. Which of the following is true?

- (a) Q likes XN
- (b) P faces R
- (c) Two persons sit between Q and R
- (d) S sits immediate left of Q

(e) None is true

Q14. Which of the following symbols should replace the sign (#) and (&) respectively in the given expression in order to make the expression  $E < F$  and  $C \geq D$  definitely true?

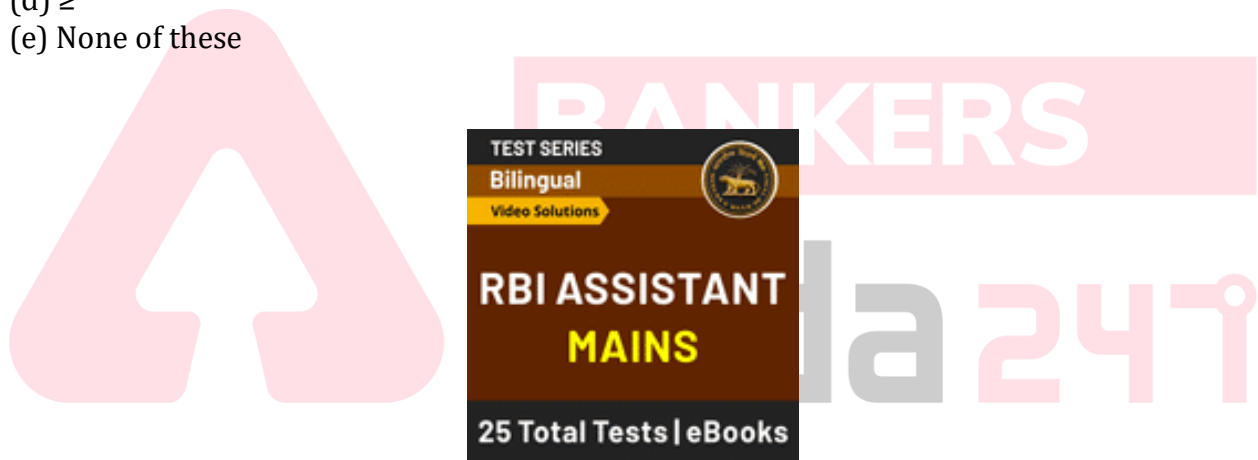
$$B < E \leq G = H < D \# F \leq A \& C$$

- (a)  $\geq, =$
- (b)  $\geq, \leq$
- (c)  $>, \leq$
- (d)  $=, \leq$
- (e)  $\geq, <$

Q15. Which of the following symbols should replace the sign (@) respectively in the given expression in order to make the expression  $L \geq W$  and  $V > S$  definitely true?

$$P \geq V > R > T = L @ Q \geq S = W$$

- (a)  $>$
- (b)  $<$
- (c)  $\leq$
- (d)  $\geq$
- (e) None of these



### Solutions

Solutions (1-5):

From the given statements, The Box S is placed at the topmost position. Not more than three boxes are placed above A. From this condition we get 3 possibilities i.e. Case 1, Case 2 and Case 3. Four boxes are placed between A and E. Three boxes are placed between E and the box which has 24 pens which are placed above E. There are four boxes placed between the box which has 24 pens and the box which has 16 more pens than that box. The number of boxes is placed between box A and the box which has 40 pens is half of the number of boxes is placed below box E.

Case 1		Cas2		Case 3	
Boxes	Pens	Boxes	Pens	Boxes	Pens
S		S		S	
				A	

		A			24
A			24		
	24				
				E	
		E			40
E			40		
	40				

From the given statements, Box Q is placed 3rd from the bottom-most position. The box which has 54 pens is placed just above Q.

Case 1		Case 2		Case 3	
Boxes	Pens	Boxes	Pens	Boxes	Pens
S		S		S	
				A	
		A			24
A			24		
	24				
				E	
		E			40
E			40		
	40				
					54
			54	Q	
	54	Q			
Q					

The number of boxes is placed between E and T is one less than the number of boxes is placed between T and the box which has 54 pens. From the given statements, the number

of boxes is placed between T and Q is the four time than the boxes are placed between S and A. From this condition Case 1 and Case 3 are eliminated.

So, the final arrangement is –

Boxes	Pens
S	
A	
24	24
E	
40	40
T	
54	54
Q	

Sol.

S1. Ans. (b)

S2. Ans. (d)

S3. Ans. (c)

S4. Ans. (d)

S5. Ans. (a)

Solutions (6-10):

Sol. Logic- Step I- the position of first digit is interchanged with the second and the third digit is interchanged with the fourth digit in each of the number.

Step II- All the digits of the given numbers are arranged in descending order within the numbers.

Step III- Even numbers are divided by 2 and odd numbers are divided by 3.

Step IV- All the numbers obtained in step III are arranged in ascending order from the left end.

Step V- sum of all digits of each number.

Step VI- the first number is obtained by adding the 1<sup>st</sup> and 2<sup>nd</sup> number of step V and 2<sup>nd</sup> number is obtained by adding 2<sup>nd</sup> and 3<sup>rd</sup> number of the step V and so on till the last number is obtained.

Input: 7536 1758 4562 3528 9576 3256

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Step I- 5763 7185 5426 5382 5967 2365  
 Step II- 7653 8751 6542 8532 9765 6532  
 Step III- 2551 2917 3271 4266 3255 3266  
 Step IV- 2551 2917 3255 3266 3271 4266  
 Step V- 13 19 15 17 13 18  
 Step VI- 32 34 32 30 31

S6. Ans. (c)

Sol.  $8532 - 2917 = 5615$

S7. Ans. (d)

S8. Ans. (c)

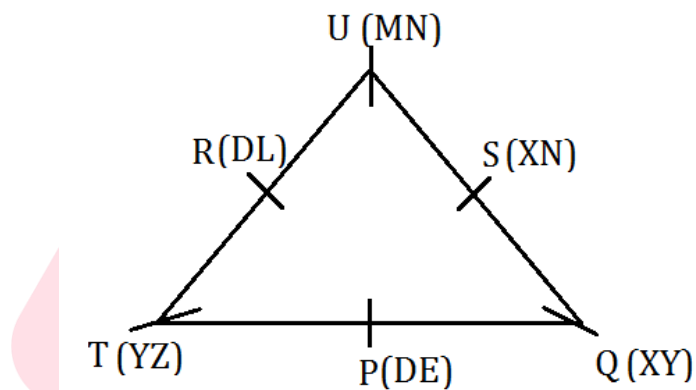
Sol.  $4266 + 3271 = 7537$

S9. Ans. (c)

Sol.  $19 \times 32 = 608$

S10. Ans. (a)

Solutions (11-13):



Sol.

S11. Ans. (b)

S12. Ans. (a)

S13. Ans. (c)

S14. Ans. (d)

S15. Ans. (d)



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