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# Coding Decoding for SBI PO Mains, IBPS PO Mains Exams.

## Coding Decoding Quiz 52

**Directions:** Read the following information carefully and answer the questions given beside.

A software engineer prepared a 4×4 matrix to get output.

The rows of the matrix are denoted by %, \$, @ and & from top to bottom.

The columns of the matrix are denoted by P, Q, R and S from left to right.

### Rules :

The matrix contains numerical values that are obtained as per the following rules.

- I. Row % contains consecutive multiples of 9 starting from 27 from left to right.
- II. Row \$ contains consecutive prime numbers starting from 19 from right to left.
- III. Row @ contains consecutive multiples of 11 starting from 55 from left to right.
- IV. Row & contains consecutive odd numbers starting from 33 from left to right.

### Process of receiving output :

To gain output a string is input which is denoted by string X or string Y or a combination of both.

The string contains numerical values of the matrix, which is denoted by placing row name first and then column name. For example: %R means that value of row% which is written at column R.

### Forms of Output :

The output can be received in following four forms.

- A : If the value of output is less than 120
- B : If the value of output is between 120 and 200
- C : If the value of output is between 201 and 260
- D : If the value of output is more than 260

### Value of output :

There are certain conditions to find the value of output, which is given below.

- I. If all the values of a string are odd numbers then subtract the second lowest number from the highest number and take the square of the difference.
- II. If sum of even numbers is more than that of odd numbers then add the highest and the third highest numbers of the string.
- III. If the string does not contain prime number then first half all the numbers and then add them.

**Note :** If a string follows more than one conditions, only preceding condition has to be followed.

All the questions are asked on the basis of below mentioned strings.

X = @Q &S @S %P

Y = %R \$\$ &Q @P

**Questions :**

**1. If only string Y is to be considered as input then which of the following outputs will be received?**

- A. B                      B. A                      C. C                      D. D                      E. Either C or D.

**2. If only string X is to be taken as input and the engineer wants to receive output C, then which of the following values can be added to string X?**

- A. &Q + %P                      B. %R + \$R                      C. &S + @P                      D. \$S + &P                      E. Both B and C

**3. If X + Y is to be taken as input then which of the following will be the output received?**

- A. B                      B. D                      C. C                      D. A                      E. Either C or D

**4. If Y – X is to be considered as input then which of the following is to be deducted from the output to make it 'B'?**

- A. %S                      B. @Q                      C. @R                      D. &S                      E. %Q

**5. If only string X is to be considered as input then which of the following will be the output?**

- A. A                      B. B                      C. C                      D. D                      E. Either A or B

**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
D	C	B	C	B

## Common explanation :

### Reference:

- I. Row % contains consecutive multiples of 9 starting from 27 from left to right.
- II. Row \$ contains consecutive prime numbers starting from 19 from right to left.
- III. Row @ contains consecutive multiples of 11 starting from 55 from left to right.
- IV. Row & contains consecutive odd numbers starting from 33 from left to right.

### Inference:

	P	Q	R	S
%	27	36	45	54
\$	31	29	23	19
@	55	66	77	88
&	33	35	37	39

### Reference:

- I. If all the values of a string are odd numbers then subtract the second lowest number from the highest number and take the square of the difference.
- II. If sum of even numbers is more than that of odd numbers then add the highest and the third highest numbers of the string.

### Inference:

X = @Q &S @S %P

Y = %R \$S &Q @P

X = @Q &S @S %P

X = 66 39 88 27

For string X, condition II is applicable.

Thus,  $88 + 39 = 127$ .

For string Y, condition I is applicable.

Y = %R \$S &Q @P

Y = 45 19 35 55

Thus  $55 - 35 = 20$

Square of 20 = 400.



## Explanations:

1. If only string Y is to be considered as input then the output will be 400.

Thus output D will be received.

Hence option D is correct.

2. If only string X is to be considered as input then the output will be 127.

So, to obtain output C we need at least  $201 - 127 = 74$ .

Among the given options, only option C produces the value more than 74.

&S + @P  
 $39 + 55 = 94$

Hence option C is correct.

3. If X+Y is to be considered as input then the output will be  $127 + 400 = 527$

So the output obtained is D.

Hence option B is correct.

4. If  $Y - X$  is to be considered as input then the output will be  $400 - 127 = 273$

To make it between 120 and 200, at least 73 has to be deducted from the given output.

Only @R which is 77 is the value that is when deducted from the output will make it 196.

Hence option C is correct.

5. If only string X is to be considered as input then output will be 127, thus output will be B.

Hence option B is correct.



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