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The Question Bank

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:

1	2	3	4	5
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.

$$\begin{aligned} & \&S + \&P \\ & 39 + 55 = 94 \end{aligned}$$

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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