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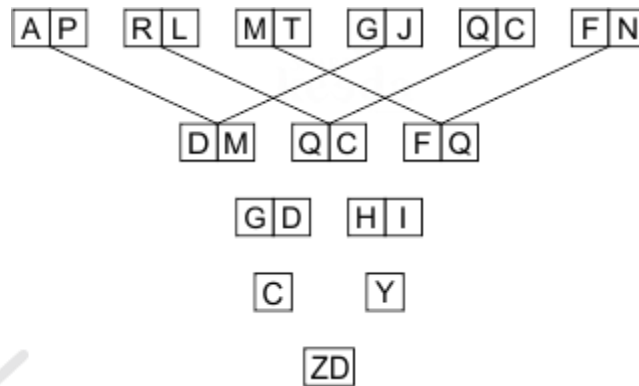
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Sequential Output Tracing Questions for SBI PO Mains and IBPS PO Mains Exams.

Set 38

Directions: Study the following information carefully and answer the questions given beside:

A letter arrangement machine arranges two letters into a typical manner. Each step is obtained by applying an operation different from the previous step. Each step gives output taking input from the previous step.



Using the above illustration solve the following input:



Questions :

1. Which of the following vowel(s) is not present in step-2?

- A. E B. O C. U D. Both E and U E. All of these

2. What would be the sum of the numerical position of the letters of both boxes of step-3?

- A. 31 B. 18 C. 26 D. 20 E. 39

3. Which of the following letter(s) is/are present in step-2?

- A. F B. K C. W D. Both K and W E. All of these

4. How many letters are there in the english alphabet series between the letters present in step-4?

- A. 5 B. 9 C. 4 D. 2 E. 11

5. Which of the following word(s) can be formed using the letters present in step-1?

A. AIR

B. NET

C. TIP

D. RAT

E. LIP

Correct Answers:

1	2	3	4	5
E	A	B	D	C



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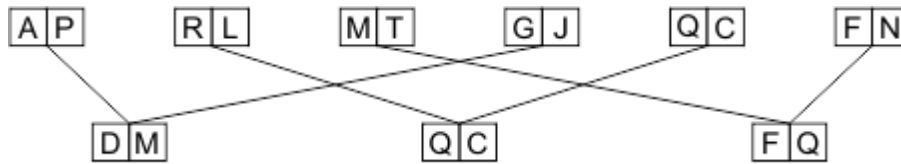
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Common Explanations:

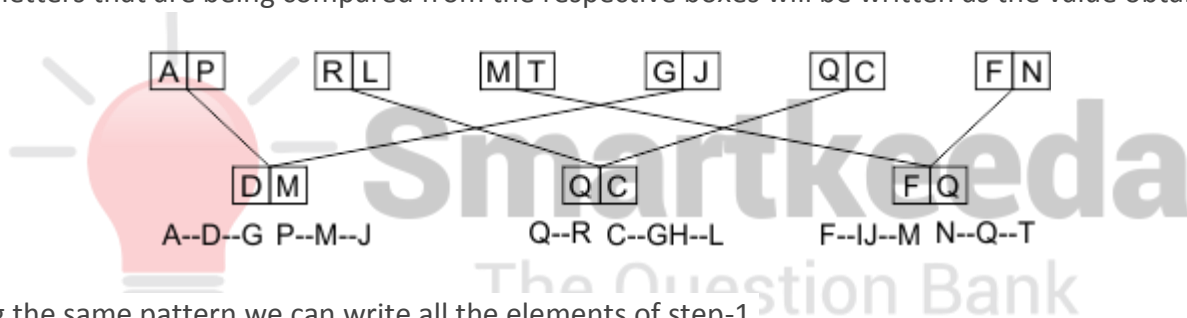
Reference:



Inference:

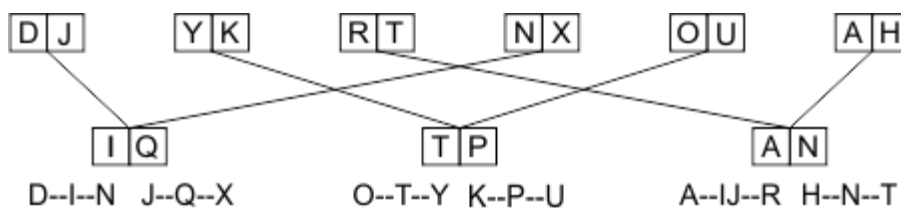
Studying the above Input and Step-1 we can say that each letter of the Step-1 is the middle of the letters of the box connected by arrows.

Here, for 1st letter of 1st box in step 1 we are taking the middle letter of the first letters of box 1 and box 4. And if there are two letters or no letter in the middle then the letter which comes first in alphabetical series from the letters that are being compared from the respective boxes will be written as the value obtained.

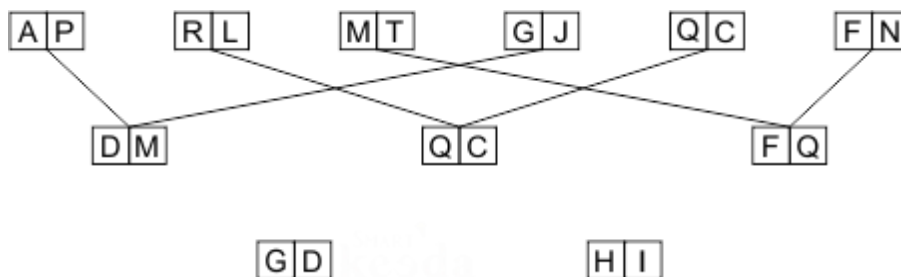


Following the same pattern we can write all the elements of step-1.

Here, step-1 of the given input can be written as:



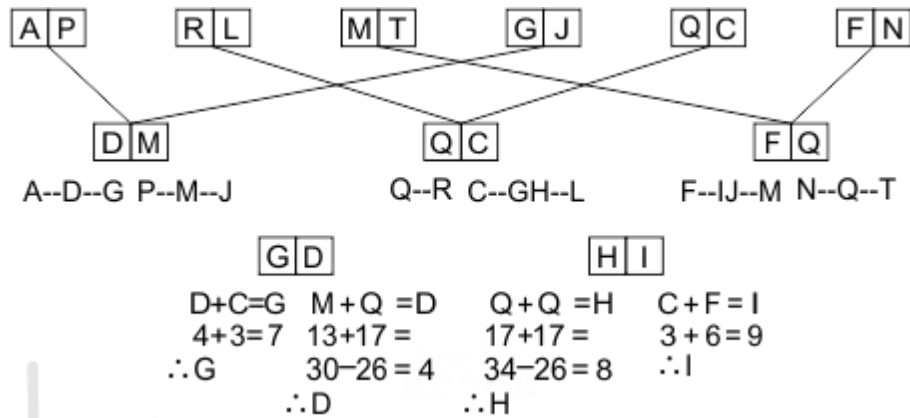
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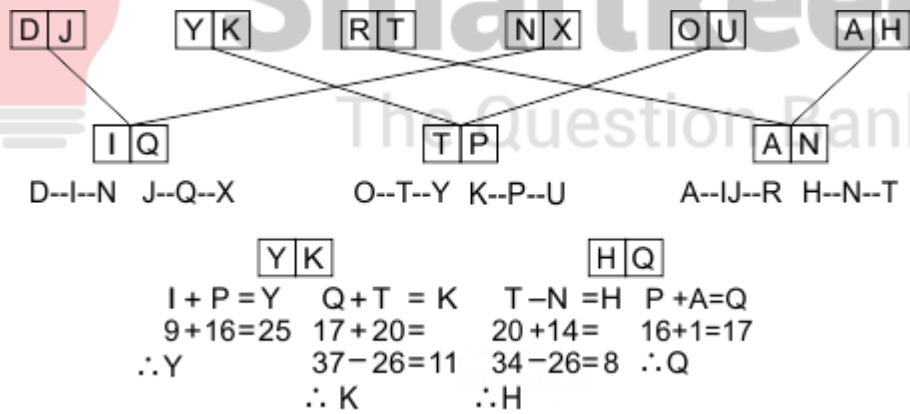
Inference:

Studying the step-2 we can say that each letter of step-2 is obtained by adding numerical position of some letters of step-1.

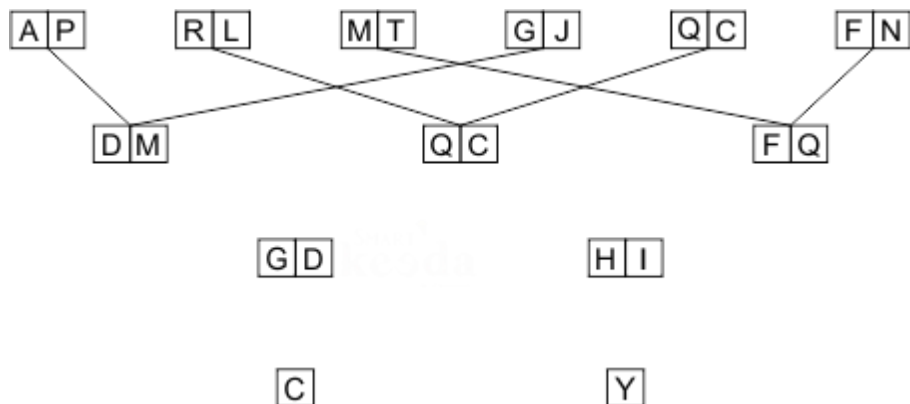
Now, 1st letter of 1st box in step 2 is obtained by adding numerical position of 1st letter of 1st and 2nd letter of 2nd box of step-1. And if the sum exceeds 26 then it is first decreased by 26 and then number obtained is changed into its respective letter.



Following the same pattern step-2 of the given input can be written as:



Reference:

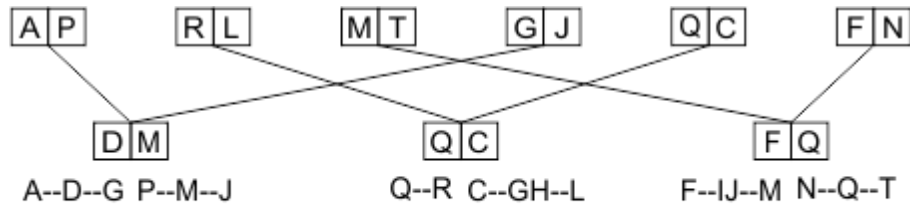



Inference:

Studying the step-3 we can say that each number of step-3 is obtained by subtracting some letters of step-2.

Here, 1st box of step 3 is obtained by subtracting numerical position of second letter of 1st box from the first letter of the same box of step-2.

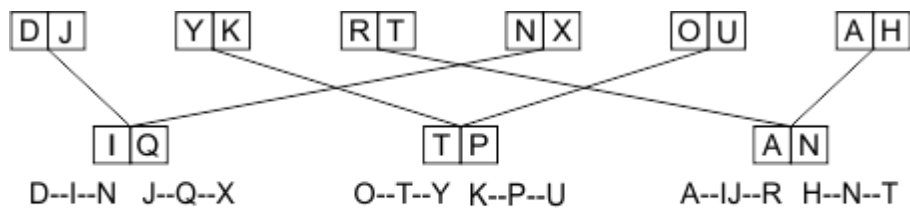
Similarly, 2nd box of step-3 is obtained by subtracting numerical position of second letter of 1st box from the first letter of the same box of step-2. If the resultant is negative in value then 26 is added to it and the number obtained is changed into its respective letter.

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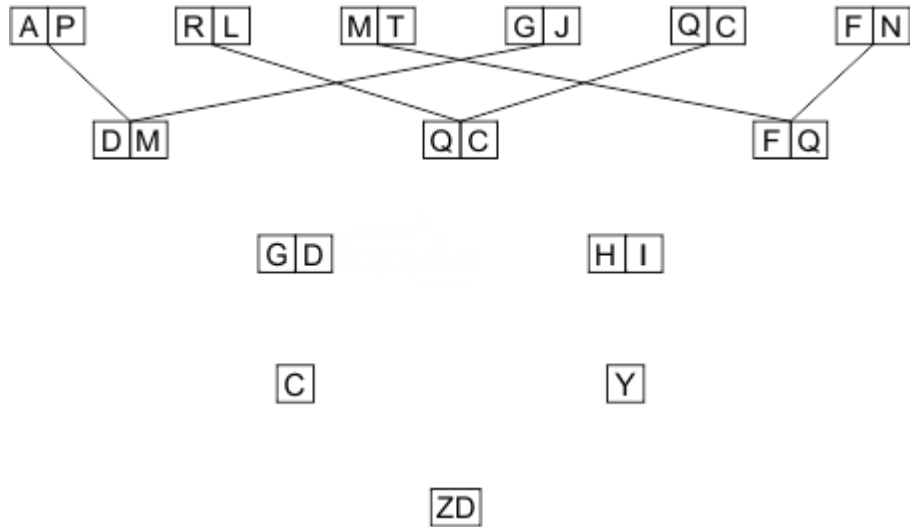
<div style="border: 1px solid black; padding: 2px; display: inline-block;">G D</div> $D+C=G$ $4+3=7$ $\therefore G$	$M+Q=D$ $13+17=$ $30-26=4$ $\therefore D$	$Q+Q=H$ $17+17=$ $34-26=8$ $\therefore H$	$C+F=I$ $3+6=9$ $\therefore I$
<div style="border: 1px solid black; padding: 2px; display: inline-block;">C</div> $G-D=C$ $7-4=3$ $\therefore C$	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Y</div> $H-I=Y$ $8-9=$ $-1+26=25$ $\therefore Y$		

Following the same pattern step-3 of the given input can be written as:



<div style="border: 1px solid black; padding: 2px; display: inline-block;">Y K</div> $I+P=Y$ $9+16=25$ $\therefore Y$	$Q+T=K$ $17+20=$ $37-26=11$ $\therefore K$	$T-N=H$ $20+14=$ $34-26=8$ $\therefore H$	$P+A=Q$ $16+1=17$ $\therefore Q$
<div style="border: 1px solid black; padding: 2px; display: inline-block;">N</div> $Y-K=N$ $25-11=14$ $\therefore N$	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Q</div> $H-Q=Q$ $8-17=$ $-9+26=17$ $\therefore Q$		

Reference:



Inference:

Studying the step-4 we can say that each letter of step-4 is obtained by writing the next letter of the letters in the boxes in reverse order of step-3.

$A \rightarrow D$ $P \rightarrow M$ $R \rightarrow Q$ $L \rightarrow C$ $M \rightarrow F$ $T \rightarrow Q$ $G \rightarrow F$ $J \rightarrow Q$ $Q \rightarrow Q$ $C \rightarrow Q$

G D H I

$D+C=7$ $M+Q=17$ $Q+Q=17$ $C+F=9$
 $4+3=7$ $13+17=30$ $17+17=34$ $3+6=9$
 $\therefore G$ $30-26=4$ $34-26=8$ $\therefore I$
 $\therefore D$ $\therefore H$

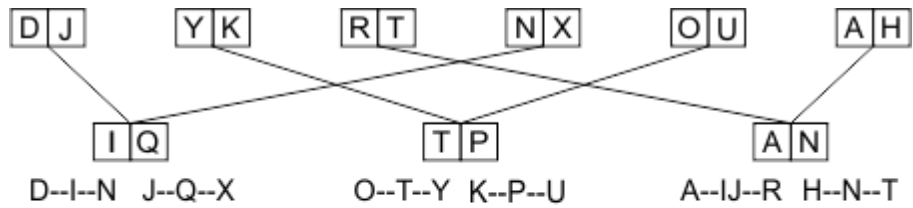
C Y

$G-D=3$ $H-I=8$
 $7-4=3$ $8-9=-1$
 $\therefore C$ $-1+26=25$
 $\therefore Y$

Z D

$C \rightarrow D$
 $Y \rightarrow Z$

Following the same pattern step-4 of the given input can be written as:



$$\begin{array}{l}
 \boxed{YK} \qquad \qquad \qquad \boxed{HQ} \\
 I + P = Y \quad Q + T = K \quad T - N = H \quad P + A = Q \\
 9 + 16 = 25 \quad 17 + 20 = \quad 20 + 14 = \quad 16 + 1 = 17 \\
 \therefore Y \qquad \qquad 37 - 26 = 11 \quad 34 - 26 = 8 \quad \therefore Q \\
 \qquad \qquad \qquad \therefore K \qquad \qquad \qquad \therefore H
 \end{array}$$

$$\begin{array}{l}
 \boxed{N} \\
 Y - K = N \\
 25 - 11 = 14 \\
 \therefore N
 \end{array}$$

$$\begin{array}{l}
 \boxed{Q} \\
 H - Q = Q \\
 8 - 17 = \\
 -9 + 26 = 17 \\
 \therefore Q
 \end{array}$$

$$\begin{array}{l}
 \boxed{RO} \\
 N \rightarrow O \\
 Q \rightarrow R
 \end{array}$$



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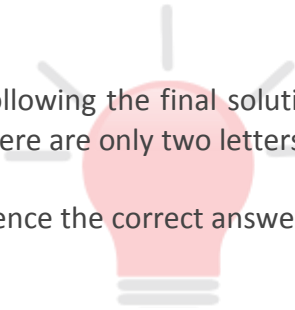
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Answers :

1. Following the final solution we can say that all of the given vowels are not present in step-2.
Hence the correct answer is option E.
2. Following the final solution we can say that the letters present in step-3 are N and Q respectively.
Required Sum = $14 + 17 = 31$.
Hence the correct answer is option A.
3. Following the final solution we can say that K is present in step-2.
Hence the correct answer is option B.
4. Following the final solution we can say that the letters present in step-4 are [RO] and we know that there are only two letters between R and O.
Hence the correct answer is option D.
5. Following the final solution we can say that 'TIP' can be formed using the letters present in step-1.
Hence the correct answer is option C.



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