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Sequential Output Tracing Quiz Questions for IBPS PO Mains, SBI PO Mains & RBI Grade B Exams.

Set No 13

Direction: Read the given information carefully and answer the questions given beside:

Consider the following steps for given input and read the instructions to reach the last step:

Input to step 1:

LK6	S9	A2	M6	UN9	DG2
R3		CE7	CE3		R7
DG1	UN8	M5	A1	S8	LK5

Step 1 to step 2:

M6	UN9	DG2	M8	VO7	CF3
CE3		R7	DF1		R9
A1	S8	LK5	A3	S10	KJ6

Step 2 to step 3:

M8	VO7	CF3	A3	S10	KJ6
DF1		R9	M8		CF3
A3	S10	KJ6	DF1	VO7	R9

Instructions:

Input to Step 1: Only letters are exchanged on the basis of the arrows given.

Step1 to 2:

If both letters are the consonants, change both letters with the preceding letter and add 1.

If there is one vowel and one consonant, change both the letters with the succeeding letter and less 2.

If there is only one letter, add 2.

Step 2 to 3: It follows some pattern which is different form the one used above.

Input:

H7	EM4	SV6
AF1		R3
C2	O9	TN8

1. What will be the sum of all the numbers in step II of given input?

- A. 46 B. 50 C. 75 D. 82 E. None of these

2. Which of the following represents the second element in 3rd row of step 1?

- A. O4 B. SV2 C. EM4 D. EM9 E. None of these

3. How many vowels are there in step 3?

- A. 1 B. 2 C. 3 D. 4 E. None of these

4. In step 2 how many alphabet are repeated?

- A. 1 B. 3 C. 4 D. 2 E. None of these

5. What is the sum of all odd numbers in step 3 of given input?

- A. 18 B. 24 C. 14 D. 12 E. None of these

Correct Answers:

1	2	3	4	5
A	D	B	A	C

Common Explanations:

Input → Step 1

Reference:

Only letters are exchanged on the basis of the arrows given.

Inference:

LK6	S9	A2
R3		CE7
DG1	UN8	M5

M6	UN9	DG2
CE3		R7
A1	S8	LK5

Input to step 1:

H7	EM4	SV6
AF1		R3
C2	O9	TN8

TN7	O4	C6
R1		AF3
SV2	EM9	H8

Step 1 → Step 2

Reference:

If both letters are the consonants, change both of them with the preceding letter and add 1.

If there is one vowel and one consonant, change both of them with the succeeding letter and subtract 2.

If there is only one letter, add 2.

M6	UN9	DG2
CE3		R7
A1	S8	LK5

M8	VO7	CF3
DF1		R9
A3	S10	KJ6

Inference:

Boxes in which both letters are consonants:

TN7 and SV2

Now, according to the hint, we will change these letters with the preceding letter and then will add 1.

It becomes:

SM8, RU3

Boxes in which, there is one vowel and one consonant are:

AF3 and EM9

Now, according to the hint, we will change these letters with their succeeding letter and subtract 2.

It becomes:

BG1 and FN7

Boxes with only one letter are:

O4, C6, R1, H8

Now, according to the hint, we will add 2.

It becomes:

O6, C8, R3, H10

TN7	O4	C6	SM8	O6	C8
R1		AF3	R3		BG1
SV2	EM9	H8	RU3	FN7	H10

Step 2 → Step 3

Reference:

It follows some pattern which is different from the one used above.

M8	VO7	CF3	A3	S10	KJ6
DF1		R9	M8		CF3
A3	S10	KJ6	DF1	VO7	R9

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Inference: Now, rows move in a cyclic fashion i.e. lowermost row reaches the top place and the middle one comes one step downward (keeping the middle box empty) and so on.

Step 2 to step 3:

SM8	O6	C8	RU3	FN7	H10
R3		BG1	SM8		C8
RU3	FN7	H10	R3	O6	BG1

Final Output:

RU3	FN7	H10
SM8	EM9	C8
R3	O6	BG1

Answers :

1. Following the common explanation, we get that:
Sum of all the numbers in step II of given input is 46.
Option A, is hence the correct answer.
2. Following the common explanation, we get that
EM 9 represents the second element in 3rd row of step 1.
Option D, is hence the correct answer.
3. Following the common explanation, we get that
2 Vowels are there in step 3.
Option B, is hence the correct answer.
4. Following the common explanation, we get that
Only one alphabet is repeated.
Option A, is hence the correct answer.
5. From the common explanation we get
Sum of all odd numbers in step 3 of given input is 14.
Option C, is hence the correct answer..





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