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Sequential Output Tracing Quiz Questions for SBI PO Pre, IBPS PO Pre IBPS Clerk Mains & SBI Clerk Mains Exams.

Set No 21

Directions: **A word and number arrangement machine, when given an input line of words and numbers, rearranges them following a different rule in each step. The following is an illustration of input and rearrangement.**

Input: nature create nothing useless without purpose

Step I: aceert aenrtu eelsssu eopprsu ghinnot hiottuw
Step II: 45 41 31 27 24 11
Step III: 8 8 26
Step IV: 16 52
Step V: 16

Step V is the last step of the arrangement.

Following the same pattern solve the given input.

Input: imagine yourself trapped inside hellish nightmare

Questions :

1. What will be the value obtained in final step of the arrangement?

A. 32   B. 38   C. 45   D. 54   E. 68

2. Which of the following will not be in step I of the given arrangement?

A. aegiimn   B. aeghinmrt   C. ehhills   D. deiins   E. eflorsuy

3. What would be the sum of the values that obtained in step III?

A. 65   B. 58   C. 66   D. 74   E. 52

4. Which one of the numbers is representing 'nightmare' in step II?

A. 15   B. 6   C. 24   D. 27   E. 11

5. How many numbers that obtained in step II is/are prime numbers?

A. More than three   B. None   C. One   D. Two   E. Three

Correct Answers:

1	2	3	4	5
D	B	C	A	D

Common Explanations:

Reference:
Input: nature create nothing useless without purpose

Step I: aceert aenrtu eelsssu eopprsu ghinnot hiottuw

Inference:
In the Step I, firstly the letters within each word are arranged in alphabetical order on the left of each word of given Input after that the words thus formed are arranged according to dictionary from left to right.

For example:

The word 'imagine' after arranging the letters in alphabetical order becomes 'aegiimn'.

Using the same rule Step I of the given Input can be written as:

Input: imagine yourself trapped inside hellish nightmare

Step I: adepprt aeghimnrt aegiimn deiins eflorsuy ehhills

Reference:

Step II: 45 41 31 27 24 11

Inference:

In the Step II, the numeric position in alphabetic series of each vowel within each word in Step I is added and the numbers thus formed are arranged in decreasing order from left to right.

For example:

The vowels in word 'adepprt' are 'a' and 'e' and numeric position of 'a' and 'e' in alphabetic is '1' and '5' respectively so the number is 1 + 5 = 6.

Using the same rule Step II of the given Input can be written as:

Step II: 41 24 23 15 14 6

Reference:
Step III: 8 8 26

Inference:
In the Step III, the difference of first and second number, third and fourth number, and fifth and six number from left end in Step II is taken and 2 is multiplied to each value that obtained.

For example:
First and second numbers from left end is Step II are '41' and '24' respectively so the difference of '41' and '24' is 17 and when 17 is multiplied by 2 we get 34. So the number is 34.

Using the same rule Step III of the given Input can be written as:

Step III: 34 16 16

Reference:

Step IV: 16 52

Inference:
The first and second numbers from left end in Step III is added then subtracted and the values thus obtained are added to form the first number from left end in step IV. And the pattern is repeated with send and third number from left end in step III to form the second number from left end in step IV.

For example:
First and second numbers from left end is Step III are '34' and '16' respectively. The difference of '34' and '16' is 18 and the sum of the '34' and '16' is 50, while the sum of 18 and 50 is 68. So the number is 68.

Using the same rule Step IV of the given Input can be written as:

Step IV: 68 32

Reference:
Step V: 16

Inference:

In the Step V, the digits within each number of Step IV are multiplied and the numbers thus formed are added to form a single number.

For example:
After multiplying the digits of the number 68 (6 × 8) we get 48 and the digits of the number 32 (3 × 2) we get 6. The sum of 48 and 6 is 54. So the number is 54.

Using the same rule Step V of the given Input can be written as:

Step V: 54

As it is given that Step V is the last step of the arrangement so the given input is completed.

Answers :

1.   Following the final solution we can say that 54 will be obtained in final step of the arrangement.

Hence, the correct answer is option **D**.

2.   Following the final solution we can say that 'aeghinmrt' will not be in step I of the given arrangement.

Hence, the correct answer is option **B**.

3.   Following the final solution, we can say the values that obtained in step III are 34, 16 and 16.

Required Sum = 34 + 16 + 16 **= 66**

Hence, the correct answer is option **C**.

4.   Following the final solution, we can say that 15 represents 'nightmare' in step II.

Hence, the correct answer is option **A**.

5.   Following the final solution we can say that two prime numbers (41 and 23) are obtained in step II.

Hence, the correct answer is option **D**.