## REASONING QUIZ

## Important Machine Input Output Reasoning Questions:

Direction (1-5): Study the following information carefully to answer the given questions. Number arrangement machine when given an input line of numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input: 91537214392485766167
Step I: 13915372398576616723
Step II: 40139172857661672354
Step III: 62401391728576235468
Step IV: 71624013918523546875
Step V: 86716240132354687592
Input: - 564010028638416347188
Q.1. How many numbers are there between 33 and the one which is 4th from the left end in step IV?
(A) One
(B) More than three
(C) Three
(D) None
(E) Two
Q.2. How many numbers are there between the one which is 2nd from the left end and 100 in step III?
(A) One
(B) More than three
(C) Three
(D) None
(E) Two
Q.3. What is the position of $\mathbf{8 8}$ from the right end in penultimate step?
(A) First
(B) Fifth
(C) Second
(D) Third
(E) Sixth
Q.4. Which of the following number is 4 th to the left of 88 in the III step?
(A) 100
(B) 15
(C) 84
(D) 33
(E) None of these
Q.5. How many steps will be required to complete the given arrangement?
(A) five
(B) four
(C) seven
(D) eight
(E) None of these

Direction (6 to 9): Study the given information and answer the following question: A word and number arrangement machine is given an input line of words and numbers, it arranges them following a particular rule. The following is an illustration of input and rearrangement: (All the numbers are two-digit numbers)

Input: tall 4813 rise alt 997632 wise jar high 2856 barn.
Step 1: 13 tall 48 rise 997632 wise jar high 2856 barn alt.
Step 2: 2813 tall 48 rise 997632 wise jar high 56 alt barn.
Step 3: 322813 tall 48 rise 9976 wise jar 56 alt barn high.
Step 4: 48322813 tall rise 9976 wise 56 alt barn high jar rise.
Step 5: 5648322813 tall 9976 wise alt barn high jar rise.
Step 6: 76564832281399 wise alt barn high jar rise tall.
Step 7: 99765648322813 alt barn high jar rise tall wise.
And Step VII is the last step of the above arrangement as the intended
arrangement is obtained. As per the rules followed in the given steps, find out the appropriate steps for the given input.

Input: 84 why sit 1432 not best ink feet 5127 vain 6892.
Q.6. Which step number is the following output?

32271484 why sit not 51 vain 9268 feet best ink
(A) Step V
(B) Step VI
(C) Step IV
(D) Step III
(E) There is no such step.
Q.7. Which word/number would be at 5th position from the right in Step V?
(A) 14
(B) 92
(C) feet
(D) best
(E) why
Q.8. How many elements (words or numbers) are there between 'feet' and '32' as they appear in the last step of the output?
(A) One
(B) Three
(C) Four
(D) Five
(E) Seven
Q.9. Which of the following represents the position of 'why' in the fourth step?
(A) Eighth from the left
(B) Fifth from the right
(C) Sixth from the left
(D) Fifth from the left
(E) Seventh from the left
and numbers rearranges them following a particular rule. The following is an illustration of input
and rearrangement. (All the numbers are two-digit numbers.)
Input: sine 8871 cos theta 1456 gamma delta 26
Step I. cos sine 71 theta 1456 gamma delta 2688
Step II. delta cos sine theta 1456 gamma 268871
Step III. gamma delta cos sine theta 1426887156
Step IV. sine gamma delta cos theta 1488715626
Step V. theta sine gamma delta cos 8871562614
Step V is the last step of the rearrangement.
As per the rules followed in the above steps, find out in each of the following questions the appropriate steps for the given input.

Input: for 52 all 9625 jam road 15 hut 73 bus stop 3846 (All the numbers given in the arrangement are two-digit numbers.)
Q.10. Which word/number would be at 8th position from the right in step IV?
(A) 15
(B) road
(C) hut
(D) jam
(E) stop
(A) There will be no such step.
(B) III
(C) II
(D) V
(E) VI
Q.12. Which of the following would be step VII?
(A) stop road jam hut for bus all 15967352463825
(B) road jam hut for bus all stop 15253846527396
(C) stop road jam hut for bus all 96735246382515
(D) jam hut for bus all 25 road stop 159673524638
(E) There will be no such step.
Q.13. Which word/number would be at 6th position from the left in step V?
(A) 25
(B) stop
(C) jam
(D) all
(E) road
Q.14. Which of the following would be step III?
(A) hut for bus all 25 jam road 15 stop 3896735246
(B) for bus all 25 jam road 15 hut 38 stop 96467352
(C) hut for bus all jam road 15 stop 389673524625
(D) for bus all 25 jam road 15 hut stop 3846967352
(E) None of these

Direction (15 to 20): Study the given information and answer the following question. A word and number arrangement machine are given an input line of words and numbers, it arranges them following a particular rule. The following is an illustration of input and rearrangement. (All the numbers are two-digit numbers)

Input : 61 person train 69 city 75 long 64 kind 73.
Step 1: 7561 person 69 city long 64 kind 73 train.
Step 2: 73756169 city long 64 kind train person.
Step 3: 69737561 city 64 kind train person long.
Step 4: 6469737561 city train person long kind.
Step 5: 6164697375 train person long kind city.
And Step V is the last step of the above arrangement as the intended arrangement is obtained. As per the rules followed in the given steps, find out the appropriate steps for the given input.

Input: 38 expert 33 done insect $4245 \mathbf{3 2}$ given find 47 again.
Q.15. Which of the following represents seconds from the left and third from the right in the fourth steps?
(A) 42, given
(B) 38, find
(C) 42, insect
(D) 33, find
Q.16. Which of the following elements appear (s) between ' 33 ' and 'insect' in step III?
(A) both done and again
(B) only again
(C) done, 32 and again
(D) only done
Q.17. How many elements are there between '47' and 'done' in the second last step?
(A) both done and again
(B) only again
(C) done, 32 and again
(D) only done
Q.18. Which step number is the following output? 42454738 expert 33 done again insect given find
(A) 2
(B) 5
(C) 4
(D) 3
Q.19. What is the position of ' 38 ' with respect to 'expert' in step 4 ?
(A) second to the left
(B) eleventh to the left
(C) second to the right
(D) immediate left
Q.20. How many steps will be required to complete the arrangement?
(A) five
(B) six
(C) seven
(D) eight

ANSWERS
1.D
2.A
3.B
4.B
5.A
6.E
7.D
8.B
9.C
10.B
11.C
12.C
14.D
15.A
16.C
17.D
18.D
19.D

## 20.B

