

# Alpha Numeric Symbol Series Questions for SBI Clerk Pre, IBPS Clerk Pre, LIC Assistant and IBPS RRB Exams. 

## Alpha Numeric Symbol Series Set 40

Directions: Study the following information carefully and answer the questions given beside:
There are seven 3-digit numbers as given below:

325618378461782562213

1. For all the numbers, if the third digit is increased by 1 , then how many numbers will become multiples of 3 ?
A. 2
B. 4
C. 1
D. 3
E. None of these
2. If the $1^{\text {st }}$ and $3^{\text {rd }}$ digits of all numbers are interchanged, then what will be the sum of the product of $1^{\text {st }}$ and $3^{\text {rd }}$ digits of the lowest number and the product of $1^{\text {st }}$ and $3^{\text {rd }}$ digits of the highest number?
A. 24
B. 30
C. 22
D. 49
E. 28
3. If all the digits in all the numbers are arranged in descending order, then what is the sum of the $1^{\text {st }}$ digit of second lowest number and the $2^{\text {nd }}$ digit of second highest number?
A. 17
B. 14
C. 9
D. 13
E. 12
4. For all the numbers if the even digits are decreased by 1 and odd digits are increased by 1 , then what will be the sum of $2^{\text {nd }}$ and $3^{\text {rd }}$ digit of the second highest number?
A. 10
B. 6
C. 3
D. 9
E. 5
5. If all the digits are arranged in increasing order for all the numbers, then the difference between the sum of even and odd digits for the third lowest number is:
A. 10
B. 12
C. 13
D. 8
E. 2

Correct Answers:

| $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :--- | :--- | :--- | :--- | :--- |
| A | E | E | B | C |

## Explanations :

1. 325618378461782562213

If the third digit is increased by 1 , then the numbers are
326619379462783563214
We can now apply the divisibility test rule of 3 which says that for a number to be completely divisible by 3 , the sum of all its digits must be divisible by 3 .

Among the above ones only 462 and 783 are such numbers.
Option A is hence the correct answer.
2. 325618378461782562213

If the $1^{\text {st }}$ and $3^{\text {rd }}$ digits of all numbers are interchanged, then the numbers are
523816873164287265312
Numbers in ascending order:
164265287312523816873
The lowest number is 164 and
The highest number is 873
Hence, sum of the products as given in the questions will be $=(1 \times 4)+(8 \times 3)=28$
Hence, Option E is correct.
3. 325618378461782562213

If all the digits are arranged in descending order, then the numbers are
532861873641872652321
Numbers in ascending order:
321532641652861872873
Clearly, the second lowest number is 532 .
And the second highest number is 872 .
Hence, the required sum $=5+7=12$
Hence, Option E is correct.
4. 325618378461782562213

If the even digits are decreased by 1 and odd digits are increased by 1 , then the numbers are

416527487352871651124

Numbers in ascending order:
124352416487527651871

Now, the second highest number is 651
Hence, the sum its $2^{\text {nd }}$ and $3^{\text {rd }}$ digit is $5+1=6$
Hence, Option B is correct.
5. 325618378461782562213

If all the digits are arranged in increasing order then, the numbers are
235168378146278256123

Numbers in ascending order:
123146168235256278378

Now, the third lowest number among these is 168 .
Hence, the difference between the sum of even and odd digits is $(8+6)-1=13$
Hence, Option C is correct.

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