

# Alpha Numeric Symbol Series Questions for SBI Clerk Pre, IBPS Clerk Pre, LIC Assistant and IBPS RRB Exams. <br> <br> Alpha Numeric Symbol Series Set 42 

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Directions: The following questions are based on the two digit numbers given below:

| 91 | 82 | 64 | 49 | 81 |
| :--- | :--- | :--- | :--- | :--- |

1. If each number is multiplied by 5 , what will be the sum of the first digit of the each of the numbers?
A. 17
B. 21
C. 15
D. 16
E. 18
2. If each number is made to increase or decrease to a closest perfect square, which number before change will become the third highest number?
A. 64
B. 81
C. 82
D. 59
E. 49
3. If numeric ' 3 ' is put at the end of the each of the two digit numbers given, then the digits of the newly formed numbers are reversed and the numbers thus formed are written in descending order, what will be the sum of the digits of the number that lies in middle of the arrangement?
A. 17
B. 11
C. 15
D. 13
$E$. None of these
4. If every given number is subtracted from 100 , what will be difference of the sum of the digits of the squares of the highest and the lowest resultants?
A. 1
B. 0
C. 2
D. 5
E. None of these
5. What is the difference between the sum of perfect squares and numbers that are not perfect squares?
A. 18
B. 16
C. 19
D. 21
E. 14

Correct Answers:

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

## Explanations :

1. The given sequence:
$\begin{array}{lllll}91 & 82 & 64 & 49 & 81\end{array}$

## After multiplying it by 5,

$\begin{array}{lllll}455 & 410 & 320 & 245 & 405\end{array}$
$\therefore$ The addition of first digit of each number is
$4+4+3+2+4=17$
Hence the correct option is A.
2. The given sequence:
$\begin{array}{lllll}91 & 82 & 64 & 49 & 81\end{array}$
for 91
91 lies between perfect square 100 and 81
But it is closer to $100 \therefore$ It will be increased to 100
82 lies between perfect square 81 and 100
But it is closer to $81 \therefore$ It will be decreased to 81

Similarly for other numbers, the sequence becomes
$\begin{array}{lllll}100 & 81 & 49 & 36 & 64\end{array}$
That makes 64 as the third highest number after change and 81 before change.
Hence the correct option is B.
3. The given sequence:
$\begin{array}{lllll}91 & 82 & 64 & 49 & 81\end{array}$

After putting 3 at the end of each of the numbers:
$\begin{array}{lllll}913 & 823 & 643 & 493 & 813\end{array}$
Reversing the digits:
$\begin{array}{lllll}319 & 328 & 346 & 394 & 318\end{array}$

Writing the numbers in descending order:
$\begin{array}{lllll}394 & 346 & 328 & 319 & 318\end{array}$
Sum of the digits of the number that comes in the middle $=3+2+8=13$
Option D is hence the correct answer.
4. The given sequence:

## $\begin{array}{llll}91 & 82 & 64 & 49\end{array}$ <br> 81

We know that when we subtract the given numbers from 100, the highest and the lowest resultants will be ( $100-49=$ ) 51 and ( $100-91=$ ) 9 respectively.

Squares of these two numbers will be: 2601 and 81 respectively.

Sum of the digits $=2+6+0+1=9$ and $8+1=9$
The required difference $=9-9=0$

Option B is hence the correct answer.
5. The given sequence:
$\begin{array}{lllll}91 & 82 & 64 & 49 & 81\end{array}$
addition of non-perfect squares
$91+82=173$
addition of perfect squares
$64+49+81=194$

Difference between them

$194-173=21$

Hence the correct option is D.

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