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

## Alpha Numeric Symbol Series Set 51

Directions: Following questions are based on the six three-digit numbers given below:
$\begin{array}{llllll}428 & 548 & 943 & 297 & 567 & 459\end{array}$

1. If the positions of the second and the third digits of each number are interchanged, what will be the difference between middle digits of the second lowest and the highest number?
A. 1
B. 3
C. 5
D. 4
$E$. None of these
2. What is the multiplication of all the digits of the resultant number formed by the sum of the smallest and the second highest numbers?
A. 256
B. 192
C. 129
D. 154
E. None of these
3. If $\mathbf{1}$ is added to the last digit of each of the numbers how many numbers thus formed will be multiple of 4 ?
A. Only one
B. Two
C. More than three
D. Four
E. None of these
4. What will be the difference of the square of the last digits of the third lowest and the second highest number?
A. 69
B. 32
C. 25
D. 36
E. None of these
5. If in each number the first and the second digits are interchanged then which will be the third highest number?
A. 428
B. 297
C. 459
D. 548
E. None of these

Correct Answers:

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

## Explanations:

1. The given numbers:
$\begin{array}{llllll}428 & 548 & 943 & 297 & 567 & 459\end{array}$
After applying above condition, we get:
$\begin{array}{llllll}482 & 584 & 934 & 279 & 576 & 495\end{array}$
Now, arranging all the numbers in ascending order, we get:
$\begin{array}{llllll}279 & 482 & 495 & 576 & 584 & 934\end{array}$
The second lowest and the highest number of the sequence are 482 and 934 respectively.
The middle digit of $482=8$
The middle digit of $934=3$
Now, difference between the middle digits of these two numbers $=8-3=5$
Hence, the correct answer is option C.
2. The given numbers:
$428 \quad 548 \quad 943 \quad 297 \quad 567 \quad 459$
Arranging all the numbers in ascending order, we get:
$\begin{array}{llllll}297 & 428 & 459 & 548 & 567 & 943\end{array}$
The smallest and the second highest numbers are 297 and 567.
Now, required sum $=297+567=864$
Multiplication of all the digits of $864=8 \times 6 \times 4=192$
Hence, the correct answer is option B.
3. The given numbers:
$\begin{array}{llllll}428 & 548 & 943 & 297 & 567 & 459\end{array}$
Applying the above condition in the given sequence, we get:
$429 \quad 549944 \quad 298568460$
Here, we can see the 944,568 and 460 are multiple of 4.
Hence, the correct answer is option E.
4. The given numbers:
$\begin{array}{llllll}428 & 548 & 943 & 297 & 567 & 459\end{array}$

Arranging all the numbers in ascending order, we get:
$\begin{array}{llllll}297 & 428 & 459 & 548 & 567 & 943\end{array}$
The third lowest number $=459$, the last digit of 459 is 9 .

The second highest number $=567$, the last digit of 567 is 7 .

Square of $9=81$
Square of $7=49$
Difference of 81 and $49=32$

Hence, the correct answer is option B.
5. The given numbers:
$428 \quad 548 \quad 943 \quad 297$
567459
Applying the above condition in the sequence, we get:
$\begin{array}{llllll}248 & 458 & 493 & 927 & 657 & 549\end{array}$

Now, arranging all the numbers in ascending order, we get:
$\begin{array}{llllll}248 & 458 & 493 & 549 & 657 & 927\end{array}$

Third highest number will be 549.

Hence, the correct answer is option C.

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