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

Alpha Numeric Symbol Series Set 31

Directions: Following questions are based on the five three-digit numbers given below:

657  412  568  413  672

1. If 2 is added to the first digit of every even number and 1 is subtracted from the first digit of every odd number, what will be the difference between the 2nd largest and 2nd smallest number?
   A. 455  B. 211  C. 559  D. 317  E. None of these

2. If all the digits in each of the numbers are arranged in descending order within the number, what will be the square of the sum of the digits of the largest number?
   A. 361  B. 441  C. 324  D. 400  E. None of these

3. What will be the resultant if the middle digit of the second largest number is divided by the first digit of the second smallest number?
   A. 1  B. 2  C. 3  D. 2.5  E. None of these

4. If in each number, the first and the second digits are interchanged, which of the following numbers will come in the middle when arranged in ascending order?
   A. 534  B. 762  C. 341  D. 567  E. None of these

5. If 1 is subtracted from the last digit of each of the numbers, how many numbers will be divisible by 4?
   A. 1  B. 2  C. 3  D. 4  E. None of these

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Correct Answers:

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<th>1</th>
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Explanations:

1. The given sequence:
   657  412  568  413  672

   The new sequence:
   557  612  768  313  872

   The sequence in ascending order:
   313  557  612  768  872

   The 2\textsuperscript{nd} largest number = 768

   The 2\textsuperscript{nd} smallest number = 557

   The required difference = 768 − 557 = 211

   Option B is hence the correct answer.

2. The given sequence:
   657  412  568  413  672

   Clearly, if the digits in each of the numbers are arranged in descending order, the largest unit digit among all will become the largest number after the rearrangement.

   If we observe, we find that the largest unit digit we get in the number ‘568’ and if we arrange its digits in descending order the number becomes: 865

   Sum of its digits = 8 + 6 + 5 = 19

   Square of 19 = 361

   Option A is hence the correct answer.
3. The given sequence:
   657  412  568  413  672

   The sequence in ascending order:
   412  413  568  657  672

   2\(^{nd}\) largest number = 657

   Its middle digit = 5

   2\(^{nd}\) smallest number = 413

   Its first digit = 4

   The required resultant = 5/4 = 1.25

   Clearly, option E is the correct answer.

4. The given sequence:
   657  412  568  413  672

   The new sequence:
   567  142  658  143  762

   The new sequence in ascending order:
   142  143  567  658  762

   Clearly, the number 567 comes in the middle.

   Option D is hence the correct answer.

5. The given sequence:
   657  412  568  413  672

   The new sequence:
   656  411  567  412  671

   As we can see that the last two digits of only two numbers (656 and 412) are divisible by 4 and therefore we can say that there are only two numbers that are divisible by 4.

   Option B is hence the correct answer.
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