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

Alpha Numeric Symbol Series Set 42

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:

1	2	3	4	5
A	B	D	B	D

Explanations :

1. The given sequence:

91 82 64 49 81

After multiplying it by 5,

455 410 320 245 405

∴ 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:

91 82 64 49 81

for 91

91 lies between perfect square 100 and 81

But it is closer to 100 ∴ It will be increased to 100

82 lies between perfect square 81 and 100

But it is closer to 81 ∴ It will be decreased to 81

Similarly for other numbers, the sequence becomes

100 81 49 36 64

That makes 64 as the third highest number after change and 81 before change.

Hence the correct option is B.

3. The given sequence:

91 82 64 49 81

After putting 3 at the end of each of the numbers:

913 823 643 493 813

Reversing the digits:

319 328 346 394 318

Writing the numbers in descending order:

394 346 328 319 318

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:

91 82 64 49 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:

91 82 64 49 81

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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