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Marks: 20

STD: VIII

TT - MATHS

Time: 40min

I. Answer in one word:

5x1=5

1. Why 243, 502 is not a perfect square numbers? Give reason.

2. Without adding find the sum of $1 + 3 + 5 + 7 + 9 + 11$.

3. Write the general form for pythagorean triplet?

4. Square numbers can only have _____ numbers of zeroes at the end.

5. What are the digits the square number can have at units place?

II. Answer the following:

5x3=15

6. Write a pythagorean triplet whose one member is 10.

7. Find the square of the number 82 without actual calculation.

8. a) How many numbers lie between the square of the numbers 11 and 12.

b) What will be the unit digit of the square of the following numbers

i) 799 and (ii) 55.

9. Using the given pattern find the missing numbers

$$9^2 = 81$$

$$99^2 = 9801$$

$$999^2 = 998001$$

$$9999^2 = 9 \text{ _____ } 1$$

$$\text{_____} = 9999800001$$

$$999999^2 = 999998000001$$

10. a) What will be the number of zeroes in the square of the following number? (i) 50 (ii) 200.

b) The squares of which of the following be odd numbers (i) 21 (ii) 24.