

**TOPIC- SQUARE AND SQUARE ROOTS**

Q1. How many non-square numbers lie between the following pairs of numbers?

- i.  $10^2$  and  $11^2$
- ii.  $101^2$  and  $102^2$

Q2. Using the prime factorisation method, find which of the following number are perfect square:

- i. 441
- ii. 576
- iii. 5625
- iv. 9075

Q3. Show that each of the following number is a perfect square .In each case, find the number whose square is the given number:

- i. 1225
- ii. 2601
- iii. 5929
- iv. 8281

Q4. By what least number should the given number be multiplied to get a perfect square number? In each case, find the number whose square is the new number.

- i. 3675
- ii. 2156
- iii. 3380
- iv. 2475

Q5. Find the largest number of 2 digits which is a perfect square.

Q6. Find the largest number of 3 digits which is a perfect square.

Q7. Write a Pythagorean triplet whose smaller member is:

- i. 6
- ii. 20

Q8. Find the square root of the following numbers by the repeated subtraction method.

- i. 64
- ii. 256

Q9. Find the value of  $\sqrt{47089} + \sqrt{24336}$ .

Q10. Find  $\sqrt{9}$  by repeated subtraction method.