BCM SCHOOL, BASANT AVENUE, DUGRI ROAD, LUDHIANA

APRIL ASSIGNMENT

CLASS VIII (MATHEMATICS)

TOPIC RATIONAL NUMBERS, SQUARES AND SQUARE ROOTS

SECTION A (MCQs)

1. $\sqrt{0.9} \times \sqrt{1.6} =$

   a) 0.12 b) 1.2

   c) 0.75 d) 12

2. Which of the following is a Pythagorean Triplet?

   a) (2, 3, 5) b) (5, 7, 9)

   c) (6, 9, 11) d) (8, 15, 17)

3. Assertion (A): Between 50 and 60, the perfect square no. is 56.

   Reason (R): A perfect square no. is a no. which can be expressed as a product of an integer by itself or as the second exponent of the integer.

   a) Both A and R are true and R is the correct explanation of A.

   b) Both A and R are true but R is not the correct explanation of A.

   c) A is true but R is false.

   d) A is false but R is true.

SECTION B (2 MARKS QUESTIONS)

4. The sum of two rational numbers is -5. If one of them is $\frac{-13}{6}$, find the other.

5. The rational number $\frac{-8}{35}$ is divided by a number and the result is $\frac{-4}{5}$. What is the number?

SECTION C (3 MARKS QUESTIONS)

6. Find the least number that must be added to 5607 to make it a perfect square. Also find the square root of the no. so obtained.

7. Find the square root of 2 upto two decimal places.

SECTION D (5 MARKS QUESTIONS)

8. Find the smallest 6-digit number which is a perfect square.

9. If $\sqrt{2}$ = 1.4142, find the value of $\sqrt{8}$, correct to three places of decimal.

SECTION E(CASE STUDY)

10. There is a square garden in the village Mahuli. A gardener planted 8281 plants in a garden in such a way that each row contains as many plants as the number of rows. If the area of the garden is 1225m^2, answer the questions that follows:
    a) Find the number of rows and number of plants in each row.
    b) Find the side of the square garden.
    c) Find the perimeter of the garden.
    d) Find the square root of 25 by repeated subtraction method.