**Assignment**

**Squares and Square Roots**

**VIII**

**Q1. Evaluate using identities:**

1. **(38)²-(37)²**
2. **(105)²-(104)²**
3. **(92)²-(91)²**
4. **(141)²-(140)²**

Q2. Evaluate using identities:

1. (304)²
2. (611)²
3. (798)²
4. (991)²
5. (197)²
6. (207)²

Q3. Evaluate using identities:

1. 69 x 71
2. 82 x 118
3. 1001 x 999
4. 94 x 106
5. 88 x 92

Q4. Fill in the blanks.

1. The square of an even number is\_\_\_\_\_\_\_\_\_\_
2. The square of an odd number is\_\_\_\_\_\_\_\_\_\_
3. The square of a proper fraction is \_\_\_\_\_\_\_\_\_than the given fraction.

Q5. Find the sum of the following:

1. 1+3+5+7+9+11+13+15+17
2. 1+3+5+7+9+11+13+15+17+19+21+23+25
3. 1+3+5+7+9+11+13+15+17+19+21+…+n terms

Q6. Find the square root of

1. 225 b) 7056 c)15876 d)9216

\*Use Prime Factorisation method

Q7. Using long division method, find the square root of

1. 10609 b)66049 c)33.64 d)156.25 e)10.0489

Q8. Find the least number of four digits which is a perfect square.

Q9. Find the greatest number of four digits which is a perfect square.

Q10. Find the least number which must be added to 6203 to obtain a perfect square.