

Anita's Coaching Classes

Time : 1:30hr

Marks:30

- 1) Express 19^2 as sum of two consecutive integers. Mark (1)
- 2) Without adding find the sum of $1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17$. Mark (1)
- 3) How many numbers lie between squares of 99 and 100? Mark (1)
- 4) Find the square root of 1764. Mark (2)
- 5) Find the square root of 31.36. Marks (2)
- 6) Find the least number that must be added to 893304 to obtain a perfect square. Marks (4)
- 7) Determine whether a square of the 21 is even or odd. Mark (1)
- 8) What will be the unit digit in the square of 23? Mark(1)
- 9) Find the square of 405 using the identity $(a + b)^2 = a^2 + 2ab + b^2$. Marks(2)
- 10) Why 7928 is not perfect squares? Marks(2)
- 11) Find the square root of 121 by the method of repeated subtraction. Marks(2)
- 12) Using the division method, find the square root of 363609. Marks (3)

Find the value of $\frac{\sqrt{3249} - \sqrt{2209}}{\sqrt{361} - \sqrt{81}}$.

- 13) Marks (3)
- 14) Find the smallest number by which 1100 must be multiplied so that the product becomes a perfect square. Also, find the square root of the perfect square. Mark(3)
- 15) Find the number of digits in the square root of 390625. Mark (1)
- 16) Fill in the blank using the given pattern. Mark (1)

$$7^2 = 49$$

$$67^2 = 4489$$

$$667^2 = 444889$$

$$6667^2 = \underline{\hspace{2cm}}$$