## CHAPTER - 6 <br> SQUARES AND SQUARE ROOTS

## Questions carrying 1 Mark each :-

Q. 1 Is 23453 a perfect square?
Q. 2 What will be the one's digit in ( 33$)^{2}$ ?
Q. $\left.3(15)^{2}\right) 225$. What is the square root of 225 ?
Q. 4 Without calculating square roots, find the number of digits in the square root of 305809.

## Questions carrying 2 Marks each:-

Q. 5 Without adding, find the sum: $1+3+5+7+9$.
Q. 6 How many numbers lie between squares of 30 and 31 ?
Q. 7 Find the square root of 144 by using method of repeated subtraction.

## Questions carrying 3 marks each:-

Q. 8 Using property, find the square of a number ending in 5, the number is $3^{2}$.
Q. 9 Find the smallest number by which 2100 must be multiplied so that the product become a perfect square. Find the square root of the number so obtained.
Q. 1011025 students are sitting in a lawn in such a way that there are as many students in a row as there are rows in the lawn. Find the number of rows in the lawn.
Q. 11 Find the greatest number of five digits which is a perfect square.
Q. 12 Find the square root of 2 correct up to 2 decimal places.
Q. 13 Find the least number which must be subtracted from 45156 to make it a perfect square.
Q. 14 Find the square root of 39.0625 by division method.

Multiple choice Questions carrying 1 mark each:-
Q. 15 If a perfect square is of $n$-digits, then its square root will have $\frac{n}{2}$ digits if
(a) n is odd
(2) $n$ is even
(c) n is prime
(4) none of these
Q. 16 The number of zeros in the square of 400 will be
(a) 2
(b) 1
(c) 3
(d) 4

