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CHAPTER - 6

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.3 $(1 \ 3)^2$) 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 3².
- 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.10 11025 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.

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- 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

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