CHAPTER - 7

Cubes and Cube Roots

Questions carrying 1 Mark each :-

Q.1 Find the one's digit of $(9\quad)^3$.

Q.2 State true or false:

The cube of a rational number is equal to cube of its numerator divided by the cube of its denominator.

Q.3 $()\ 9\ )^3$ = _____.

Questions carrying 2 marks each:-

Q.4 Find the cube of $()\ 27)$. 1^3

Q.5 Find the cube root of 117649 by prime factorisation method.

Q.6 Find the smallest number by which 648 may be multiplied so that the product is a perfect cube.

Questions carrying 3 marks each:-

Q.7 The volume of a cubical box is 46. 656 . Find the length of the side of the box.

Q.8 Find the cube root of $2\frac{3\ 3}{125}$.

Q.9 Find the cube root of 0.008.

Q.10 Find the smallest number by which 3456 must be divided so that the quotient become a perfect cube. Find the cube root of the quotient.

Questions carrying 6 marks each:-

Q.11 Evaluate $\sqrt[3]{\frac{999}{999}} = \frac{?}{9} + \frac{?}{9}$.

Q.12 The sides of a cube are doubted. Find the ratio between the volume of the first cube and the new cube.

Multiple choice Questions carrying 1 mark each:-

Q.13 The cube of a nagative number is

(a) always positive (b) always negative

(c) may be positive or negative (d) none of these.

Q.14 The unit digit of the cube of 3 is

(a) 9 (b) 6 (c) 7 (d) 3

Q.15 The symbol $\sqrt[3]{\ }$ demotes

(a) cube root (b) cube

(c) square (d) square root.