

# Mathematics

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(Chapter – 1) (Number Systems)(Exemplar Problems)

(Class – IX)

## Exercise 1.1

Write the correct answer in each of the following:

**Question 17:**

$\sqrt[4]{\sqrt[3]{2^2}}$  equals

- (A)  $2^{-\frac{1}{6}}$       (B)  $2^{-6}$       (C)  $2^{\frac{1}{6}}$       (D)  $2^6$

 **Answer 17:**

- (C)  $2^{\frac{1}{6}}$

**Solution:**

$$\sqrt[4]{\sqrt[3]{2^2}} = \sqrt[4]{2^{\frac{2}{3}}} = 2^{\frac{2}{3 \times 4}} = 2^{\frac{1}{6}}$$

