

# 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 20:

Value of  $(256)^{0.16} \times (256)^{0.09}$  is

- (A) 4                      (B) 16                      (C) 64                      (D) 256.25

### Answer 20:

- (A) 4

Solution:

$$(256)^{0.16} \times (256)^{0.09}$$

$$= (256)^{0.16+0.09}$$

$$= (256)^{0.25}$$

$$= (4^4)^{\frac{1}{4}}$$

$$= 4$$

