

CHAPTER - 12**Exponents and Powers****Questions carrying 1 Mark each :-**

Q.1 Write _____ in exponential form.

Q.2 Find the multiplicative inverse of 2^{-3} .

Questions carrying 2 marks each:-

Q.3 Expand 253.45 using exponents.

Q.4 Simplify and express the result as positive exponent :-

Q.5 Evaluate $\left(\frac{2}{3}\right)^{-3} \div \left(\frac{3}{2}\right)^{-2}$

Q.6 Write 0.00053 in standard form.

Q.7 Express 611×10^{-6} in usual form.

Questions carrying 3 marks each :-

Q.8 Solve for x : $\frac{-3}{-3} \times \frac{3}{-3} = \frac{-3}{-3} \times \frac{2x}{-3}$

Q.9 Simplify : $\left(\frac{9}{9}\right)^{-9} \div \left(\frac{9}{3}\right)^{-9} - \left(\frac{3}{9}\right)^{-3}$

Multiple choice Question Carrying 1 mark each :-

Q.10 $a^0 = \underline{\hspace{2cm}}$, where $a \neq 0$

- (a) 0 (b) a (c) 1 (d) none of these.

Q.11 The reciprocal of _____ is _____

(a) $\frac{-b}{-a}$

(b) $\frac{-b}{-a}$

(c) $\left(\frac{b}{b}\right)^{-n}$

(d) $(b)^n$

$\frac{-b}{-b}$