Subject: - Mathematics
Topic: - Exponents & Powers

PRACTICE PAPER (MCQ) CBSE-8th

1. The multiplicative inverse of 10^{-100} is: - **Ans. (c)**

a) 10 b) 100 c) 10^{100} d) 10^{-100}

2. $3^{-1} + 7^{-1} + 8^{-1}$ =? **Ans. (d)**

a) 18 b) 0 c) 1 d) $\frac{101}{168}$

3. $\frac{1}{1+a^{m-n}} + \frac{1}{1+a^{n-m}}$ is equal to: - **Ans. (b)**

a) 0 b) 1 c) $\frac{1}{2}$ d) a^{m+n}

4. When simplify $(x^{-1} + y^{-1})^{-1} = ?$ **Ans. (b)**

a) $x + y$ b) $\frac{xy}{x+y}$ c) xy d) $\frac{1}{xy}$

5. Reduce to lowest form, $\frac{a^2-b^2}{ab} - \frac{ab-b^2}{ab-a^2}$ is equal to: - **Ans. (a)**

a) $\frac{a}{b}$ b) $\frac{a^2-2b^2}{ab}$ c) a^2 d) $a - 2b$

6. The value of $\left(\frac{729}{4096}\right)^{-\frac{1}{3}}$ is: - **Ans. (a)**

a) $\frac{16}{9}$ b) $-\frac{16}{9}$ c) $\frac{9}{16}$ d) $-\frac{9}{16}$

7. $2^0 + 3^0 + \left(\frac{1}{4}\right)^0 = ?$ **Ans. (d)**

a) $\frac{21}{4}$ b) 0 c) 9 d) 3

8. $\left(-\frac{4}{3}\right)^7 \times \left(-\frac{4}{3}\right)^8 \div \left(-\frac{3}{4}\right)^{-5} = ?$ **Ans. (b)**

a) $\left(-\frac{4}{3}\right)^{20}$ b) $\left(-\frac{4}{3}\right)^{10}$ c) $\left(-\frac{3}{4}\right)^{10}$ d) $\left(-\frac{3}{4}\right)^{20}$

9. If $2^4 \times 4^3 = 4^x$ then the value of x is : - **Ans. (a)**

a) 5 b) 7 c) 4 d) – 5

10. If $\left(\frac{a}{b}\right)^{x-1} = \left(\frac{b}{a}\right)^{x-3}$ then x is equal to : - **Ans. (d)**

a) 1 b) $\frac{1}{2}$ c) $\frac{7}{2}$ d) 2