Subject: - Mathematics
Topic: - Exponents & Powers

PRACTICE PAPER (MCQ) CBSE-7th

1. A boy was asked to write $2^5 \times 9^2$ but he wrote 2592. The numerical difference between the two is: - **Ans. (a)**

a) 0 b) 1 c) 2 d) 3

2. The reciprocal of $\left(\frac{-2}{3}\right)^4 \times \left(\frac{-3}{4}\right)^3$ is: - **Ans. (a)**

a) – 12 b) 12 c) $\frac{-3}{4}$ d) $\frac{4}{3}$

3. Which of the following statement is true. **Ans. (d)**

a) $4^3 > 3^4$ b) $2^2 + 3^2 = (2+3)^2$ c) $3^5 < 5^3$ d) $2^8 > 8^2$

4. 16^2 as a power of 2 is: - **Ans. (b)**

a) 2^6 b) 2^8 c) 2^4 d) 2^{16}

5. Simplify: - $(2^4 \times 2^5) \div (2^2 \times 2^3)$ **Ans. (b)**

a) 214 b) 16 c) 32 d) $\frac{1}{2^4}$

6. Which of the following when simplified is not equals to 27? **Ans. (b)**

a) $(9^{10} \div 9^8) \div 3$ b) $3^{12} \div 3^8$ c) $(3^8 \div 3^6) \times (4^0 + 5^0 + 6^0)$ d) $9^0 \times 3^3$

7. If $3^n = 27$ then $3^{n-2} = ?$ **Ans. (a)**

a) 3 b) 0 c) 1 d) 9

8. Simplify : - $\frac{2^5 \times 9^2}{8^2 \times 3^5}$ **Ans. (a)**

a) $\frac{1}{6}$ b) $\frac{2}{3}$ c) $\frac{3}{2}$ d) $\frac{1}{8}$

9. Which of the following values are equal: - **Ans. (b)**

i) 1^5 ii) 0^5 iii) 5^0 iv) 5^1

a) i) and ii) b) i) and iii) c) i) and iv) d) ii) and iv)

10. If $x = 2$ and $y = 3$, the value of $\left[\frac{1}{x^x} + \frac{1}{y^y}\right]$ is: - **Ans. (b)**

a) $\frac{-31}{108}$ b) $\frac{31}{108}$ c) $\frac{125}{171}$ d) $\frac{153}{222}$