2023-24
REVISION QUSTIONS
(*Exponents & Powers*)
CLASS - VII
MATHEMATICS
Time: 40 minutes

ZERO PERIOD
We Believe in Learning

1. Write in expanded form **[1]**
   (a) 320501   (b) 10207

2. Write in standard form **[1]**
   (a)123000000   (b) 12356.98

3. Write in usual form **[1]**
   (a) $1 \times 10^7 + 3 \times 10^5 + 4 \times 10^3 + 8 \times 10^0$

   (b) 2.5×10^6 (b) 2.1967×10^2 (c)1.89×10^4

4. Express in exponential form **[1]**
   (a) $x \times x \times x \times y \times y \times z$ (b)$z \times z \times z \times t \times t$ (c) 3072   (d)1155

5. Compare **[2]**
   (a) $2^4 \square 4^2$ (b) $1.2 \times 10^7 \square 2.9 \times 10^4$ (c)$(-2)^{13} \square (-2)^{18}$ (d) $2^{50} \square 50^2$

6. Evaluate (a) $(-2)^3$ (b) $(-1)^2 \times (-2)^3$ (c) $7^2 \times 2^1$ (d) $5^0 \times 5^3$ **[2]**

7. Express 198×132 as product of its prime factors in exponential form **[2]**

8. Simplify using laws of exponents: **[3]**
   (a) $\{[(1)^2]^3\}^{12}$ (b)$(2^0 \times 3^0 + 4^0 - 5^0) \times 6^0$ (c)$(2)^4 \times (3)^4$

9. Simplify suing laws of exponents and write your answer in exponential form **[3]**
   (a) $[(2^3)^3 \times 2^7] \div 2^{16}$

   (b) $\dfrac{2^3 \times 2^4 \times 3^5}{(3^2)^2 \times (2^2)^3}$

10. Simplify, using laws of exponents **[4]**
    (a) $\dfrac{12^3 \times 6^2 \times (2^3)^4}{81 \times 4^3}$

    (b) $\dfrac{10^3 \times 15^2 \times 20^2}{6^2 \times 50^2}$