

WORK SHEET-1/3

CLASSS-VIII MODULE-1/3

EXPONENTS AND POWERS

I) Fill in the blanks

1) Exponential form of $5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5 =$ _____

2) In 6^8 , base is _____ and exponent is _____

3) 9^{10} is read as _____

4) Reciprocal of 8^{-3} is _____

5) Expanded form of $893.57 = 8 \times 10^2 +$ _____ $+$ _____ $+ 5 \times 10^{-1}$
 $+$ _____

6) write the number for

$$8 \times 10^3 + 0 \times 10^2 + 5 \times 10^1 + 3 \times 10^0 + 7 \times 10^{-1} =$$

7) If $a \neq 0$ then $a^0 =$ _____

8) Negative power of $\left\{\frac{6}{7}\right\}^5 =$ _____

9) Evaluate a) 3^{-3} b) $(-4)^{-2}$ c) $\left\{\frac{6}{7}\right\}^{-2}$

II) Answer the following

1) Express in exponential form (using prime factorisation)

a) $125 =$ b) $128 =$ c) $729 =$ d) $243 =$

III .Choose the correct option

1) The value of 0^0 is _____

a)1 b)0 c) not defined d)none of these

2) Reciprocal of -1 is

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

3)The number which has no reciprocal is

a)-5 b)8 c)0 d)none

4)The product of a number and its multiplicative inverse is

a) 0 b)1 c) not defined d)none of these