EXPONENTS & POWERS   WORKSHEET (05-07-20)

① Fill in the blanks :

(a) The value of $(-1)^{55}$ is _____.

(b) The exponent in the expression 3^7 is _____.

(c) The value of 3^0 is _____.

(d) The value of 11^3 is _____.

(e) The base in the expression 8^{10} is _____.

② Express :

(a) 729 as a power of 3. (c) 1024 as a power of 2.

(b) 343 as a power of 7. (d) 625 as a power of 25.

③ Simplify :

(a) $5^0 \times 7^0 \times 3^0$

(b) $(5^2 + 7^2 + 3^2)^0$

(c) $(3^0 + 2^0) \times 5^0$

(d) $3^0 + 4^0 + 5^0$

(e) $(100^0 \times 1000^0) + 10^0$

④ Express 1000000 in exponential form with base 100.

⑤ Compare :

(a) 5^4 and 4^5

(b) 10^4 and 100^2

(c) 15.01×10^3 and 62.7×10^3

(d) 20.3×10^{-2} and 20.3×10^2

(e) $(-3)^2 \times (-5)^2$ and $(-4)^3$