## CBSE Coaching for Mathematics and Science

## CBSE 8th Class Mathematics

## Chapter Exponent Power and Radicals and Scientific Notation CBSE TEST PAPER - 01



(a)  $4^8$ 

(b) 2<sup>8</sup>

(c)  $4^4$ 

(d) none of these

2. Express 729 as a power of 3

(a)  $3^8$ 

(b) 3<sup>6</sup>

(c)  $9^3$ 

(d) none of these

3.Express 432 as a product of powers of prime factors.

(a)  $2^3 \times 3^3$ 

(b)  $2^4 \times 3^3$ 

(c) 16 x 27

(d) none of these

4. The value of  $(-1)^{500}$  is

(a) -1

(b) 1

(c) 0

(d) none of these

5. Simplify and write in exponential form of  $(-4)^{100} \times (-4)^{20}$ 

(a)  $(-4)^{120}$ 

(b)  $(-4)^{80}$  (c)  $(-4)^{2000}$ 

(d) none of these

6. Show that  $3^0 = 1$ 

7. Simplify:  $(3^0 + 4^0 + 5^0)^0$ 

8. write the standard form of the followings:

(a) 52,00,00,000 (b) 0.0000007 (c) 0.000035

9. Express the following numbers in usual form. (i)  $3.52 \times 10^5$  (ii)  $7.54 \times 10^{-4}$  (iii)  $3 \times 10^{-5}$ 

10. In a stack there are 5 books each of thickness 20mm and 5 paper sheets each of thickness 0.016 mm. What is the total thickness of the stack.

11. Find the value of m for which  $5^m \div 5^{-3} = 5^5$ .

12. Simplify:

 $(i)\frac{25 \times t^{-4}}{5^{-3} \times 10 \times t^{-8}} (t \neq 0) \qquad (ii)\frac{3^{-5} \times 10^{-5} \times 125}{5^{-7} \times 6^{-5}} \qquad (iii)\frac{3^{5} \times 10^{5} \times 25}{5^{7} \times 6^{5}}$ 

13. Find the value of x if  $(2^{3x-1} +10) \div 7 = 6$ 

14. Simplify:  $\frac{1}{1+a^{n-m}} + \frac{1}{1+a^{m-n}}$ 

15. Find the value of x if  $(5^{2x+1} \div 25) = 125$ 

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