

BHARATH COACHING CENTRE

7th CBSE

Exponents

Total: 50

Mathematics

Time: 2.00hrs

SECTION – A

5 x 1 = 5

1. $a^m \times a^n =$
2. $a^x \times b^x =$
3. $\frac{a^m}{a^n} =$
4. $(a^m)^n =$
5. What is the value of a^z , where $z = 0$

SECTION – B

5 x 2 = 10

6. Find the value of 13^3 .
7. Find the product of power for 864
8. Simplify: $(-2)^5 \times (-10)^2$
9. Identify the greater: $(-13)^5$ or $(-10)^3$
10. Evaluate: $(\frac{-2}{3})^3$

SECTION – C

5 x 3 = 15

11. Simplify: $(\frac{2}{3})^5 \times (\frac{2}{3})^{-3}$
12. Simplify $[\{(\frac{-1}{3})^2\}^{-2}]^{-1}$
13. Find the product of power for 24125
14. Using law simplify: i) $6^{15} \div 6^{10}$ ii) $(7^2)^3 \div 7^3$
15. Simplify: $\{(2^2)^3 \times 3^6\} \times 5^6$

SECTION – C

5 x 4 = 20

16. Simplify: $\frac{3 \times 7^6 \times 11^8}{21 \times 11^3}$
17. Simplify: $\frac{25 \times 3^5 \times 10^5}{5^7 \times 6^5}$
18. Find the power of product for 729×64
19. Find the power of product for 1008×192
20. Simplify: $\frac{625 \times x^{10} y^5}{5^4 \times x^7 y^4}$