EduSahara™ Assignment

Name : Exercise3

Chapter : Exponents and Powers

Grade : SSC Grade VIII

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1. $[(-2)^{-2}]^{-2} =$

(i) $(-4)^4$ (ii) $(-2)^5$ (iii) $(-2)^4$ (iv) 1 (v) $(-2)^3$

2. $[6^5]^5 =$

(i) 6^{26} (ii) 8^{25} (iii) 6^{24} (iv) 4^{25} (v) 6^{25}

3. $\left[\left(\frac{5}{3}\right)_7\right]^3 =$

(i) 10^5 (ii) 7^6 (iii) 7^5 (iv) 7^4 (v) 4^5

4. $\left[\left(\frac{5}{2}\right)_{(-4)}\right]^{3/2} =$

(i) $\left(\frac{15}{4}\right)_{(-6)}$ (ii) $\left(\frac{7}{2}\right)_{(-4)}$ (iii) $\left(\frac{15}{4}\right)_{(-2)}$ (iv) $\left(\frac{9}{2}\right)_{(-4)}$ (v) $\left(\frac{15}{4}\right)_{(-4)}$

5. $[(-9)^2]^5 =$

(i) $(-9)^{11}$ (ii) $(-6)^{10}$ (iii) $(-9)^9$ (iv) $(-9)^{10}$ (v) $(-11)^{10}$

6. $\left[\left(\frac{-3}{7}\right)^{-5}\right]^{5/4} =$

(i) $\left(\frac{-5}{7}\right)^{(-25/4)}$ (ii) $\left(\frac{-3}{7}\right)^{(-37/6)}$ (iii) $\left(\frac{-3}{7}\right)^{(-25/4)}$ (iv) $\left(\frac{-3}{7}\right)^{(-13/2)}$ (v) $\left(\frac{-1}{7}\right)^{(-25/4)}$

7. $\left[\left(\frac{-2}{5}\right)^{(4/3)}\right]^4 =$

(i) $\left(\frac{-2}{5}\right)^{(26/5)}$ (ii) $\left(\frac{-2}{5}\right)^{(16/3)}$ (iii) $\left(\frac{-2}{5}\right)^6$ (iv) $\left(\frac{-4}{5}\right)^{(16/3)}$

8. $\left[\left(\frac{-5}{9}\right)^{-2}\right]^{5}$ =

(i) $\left(\frac{-5}{9}\right)^{-9}$ (ii) $\left(\frac{-5}{9}\right)^{-10}$ (iii) $\left(\frac{-7}{9}\right)^{-10}$ (iv) $\left(\frac{-5}{9}\right)^{-11}$ (v) $\left(\frac{-1}{3}\right)^{-10}$

9. $[2^{3}]^{-5}$ =

(i) 2^{-15} (ii) $(-1)^{-15}$ (iii) 2^{-16} (iv) 2^{-14} (v) 4^{-15}

10. $[5^{3}]^{-4/5}$ =

(i) $\left(\frac{-16}{7}\right)_{5}$ (ii) $\left(\frac{-12}{5}\right)_{3}$ (iii) $\left(\frac{-12}{5}\right)_{7}$ (iv) $\left(\frac{-8}{3}\right)_{5}$ (v) $\left(\frac{-12}{5}\right)_{5}$

11. $\left[\left(\frac{-2}{5}\right)_{2}\right]^{2}$ =

(i) $\left(\frac{-4}{5}\right)_{2}$ (ii) $\left(\frac{-4}{7}\right)_{2}$ (iii) $\left(\frac{-4}{5}\right)_{(-1)}$ (iv) $\left(\frac{-4}{3}\right)_{2}$ (v) $\left(\frac{-4}{5}\right)_{5}$

12. $\left[\left(\frac{-3}{5}\right)_{3}\right]^{-4}$ =

(i) 1 (ii) $\left(\frac{8}{3}\right)_{3}$ (iii) $\left(\frac{16}{7}\right)_{3}$ (iv) $\left(\frac{12}{5}\right)_{3}$ (v) $\left(\frac{12}{5}\right)_{5}$

13. $\left[\left(\frac{-6}{7}\right)^{2}\right]^{3}$ =

(i) $\left(\frac{-6}{7}\right)^{7}$ (ii) $\left(\frac{-8}{7}\right)^{6}$ (iii) $\left(\frac{-4}{7}\right)^{6}$ (iv) $\left(\frac{-6}{7}\right)^{6}$ (v) $\left(\frac{-6}{7}\right)^{5}$

14. $\left[\left(\frac{-2}{7}\right)^{-3}\right]^{-2/3}$ =

(i) $\left(\frac{-2}{7}\right)^{2}$ (ii) $\left(\frac{-4}{7}\right)^{2}$ (iii) $\left(\frac{-2}{7}\right)$ (iv) $\left(\frac{-2}{7}\right)^{5}$ (v) $\left(\frac{-2}{7}\right)^{3}$

15. $\left[\left(\frac{9}{7}\right)^{(-3/2)}\right]^{-4}$ =

(i) $\left(\frac{9}{7}\right)^{6}$ (ii) 1 (iii) $\left(\frac{9}{7}\right)^{7}$ (iv) $\left(\frac{9}{7}\right)^{5}$ (v) $\left(\frac{11}{7}\right)^{6}$

16. $\left[\left(\frac{8}{5}\right)^{(5/4)}\right]^{-2/5}$ =

(i) $\left(\frac{8}{5}\right)^{(-1/4)}$ (ii) $\left(\frac{-1}{2}\right)^{2}$ (iii) $\left(\frac{8}{5}\right)^{-1}$ (iv) $\left(\frac{8}{5}\right)^{(-1/2)}$ (v) $\left(\frac{6}{5}\right)^{(-1/2)}$

Assignment Key

1) (iii)	2) (v)	3) (iii)	4) (v)	5) (iv)	6) (iii)
7) (ii)	8) (ii)	9) (i)	10) (v)	11) (i)	12) (iv)
13) (iv)	14) (i)	15) (i)	16) (iv)		