EduSahara™ Assignment

Name : Exercise2

Chapter : Exponents and Powers

Grade : SSC Grade VIII

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1. $7^{6}$ =

(i) $\left(\frac{-1}{7}\right)^{-6}$ (ii) $\left(\frac{1}{7}\right)^{-6}$ (iii) $\left(\frac{1}{7}\right)^{-7}$ (iv) $\left(\frac{1}{7}\right)^{-5}$ (v) $\left(\frac{3}{7}\right)^{-6}$

2. $(-3)^{-5}$ =

(i) $(-1)^{5}$ (ii) $\left(\frac{1}{3}\right)^{5}$ (iii) $\left(\frac{-1}{3}\right)^{5}$ (iv) $\left(\frac{-1}{3}\right)^{4}$ (v) $\left(\frac{-1}{3}\right)^{6}$

3. $\left(\frac{5}{3}\right)^{-8}$ =

(i) $\left(\frac{3}{5}\right)^{7}$ (ii) $\left(\frac{1}{5}\right)^{8}$ (iii) $\left(\frac{3}{5}\right)^{8}$ (iv) $\left(\frac{3}{5}\right)^{9}$ (v) 1

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

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

5. $(-2)^{7}$ =

(i) $\left(\frac{1}{2}\right)^{-7}$ (ii) $\left(\frac{-1}{2}\right)^{-6}$ (iii) $\left(\frac{-1}{2}\right)^{-8}$ (iv) $\left(\frac{-1}{2}\right)^{-7}$ (v) $\left(\frac{-3}{2}\right)^{-7}$

6. $(-2)^{-5}$ =

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

7. $7^{-8}$ =

(i) $\left(\frac{1}{7}\right)^{9}$ (ii) $\left(\frac{3}{7}\right)^{8}$ (iii) $\left(\frac{-1}{7}\right)^{8}$ (iv) $\left(\frac{1}{7}\right)^{8}$ (v) $\left(\frac{1}{7}\right)^{7}$

8. $\left(\frac{7}{5}\right)^{(-7/6)}$ =

(i) $\left(\frac{5}{7}\right)^{(7/6)}$ (ii) $\left(\frac{5}{7}\right)^{(9/8)}$ (iii) $\left(\frac{3}{7}\right)^{(7/6)}$ (iv) 1 (v) $\left(\frac{5}{7}\right)^{(5/4)}$

9. $6^{2}$ =

(i) $\left(\frac{1}{6}\right)^{-1}$ (ii) $\left(\frac{-1}{6}\right)^{-2}$ (iii) $\left(\frac{1}{2}\right)^{-2}$ (iv) $\left(\frac{1}{6}\right)^{-2}$ (v) $\left(\frac{1}{6}\right)^{-3}$

10. $(-7)^{-3}$ =

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

11. $\left(\frac{8}{3}\right)^{6}$ =

(i) $\left(\frac{5}{8}\right)^{-6}$ (ii) $\left(\frac{3}{8}\right)^{-6}$ (iii) $\left(\frac{1}{8}\right)^{-6}$ (iv) $\left(\frac{3}{8}\right)^{-7}$ (v) $\left(\frac{3}{8}\right)^{-5}$

12. $\left(\frac{7}{2}\right)^{(-9/4)}$ =

(i) $\left(\frac{2}{7}\right)^{(5/2)}$ (ii) $\left(\frac{4}{7}\right)^{(9/4)}$ (iii) $\left(\frac{2}{7}\right)^{(13/6)}$ (iv) $\left(\frac{2}{7}\right)^{(9/4)}$ (v) $\left(\frac{2}{7}\right)^{(7/4)}$

## Assignment Key

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|---|---|---|---|---|---|
| 1) (ii) | 2) (iii) | 3) (iii) | 4) (i) | 5) (iv) | 6) (i) |
| 7) (iv) | 8) (i) | 9) (iv) | 10) (v) | 11) (ii) | 12) (iv) |

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