EduSahara™ Assignment

Name : Identity - 4

Chapter : Exponents

Grade : SSC Grade VII

1. $\frac{2^3}{2^3}$ =

(i) 1 (ii) 2^3 (iii) 2 (iv) 2^{-1} (v) 2^{-3}

2. $\frac{\left(\frac{5}{3}\right)^{-4}}{\left(\frac{5}{3}\right)^{-8}}$ =

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

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

(i) $\left(\frac{17}{10}\right)^{(-1)}$ (ii) $\left(\frac{19}{12}\right)^2$ (iii) $\left(\frac{17}{10}\right)^5$ (iv) $\left(\frac{15}{8}\right)^2$ (v) $\left(\frac{17}{10}\right)^2$

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

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

5. $\frac{(-9)^{-8}}{(-9)^{-9}} =$

(i) $(-9)^{2}$ (ii) -11 (iii) -9 (iv) -10 (v) -7

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6. $\frac{\left(\frac{-3}{8}\right)^{-2}}{\left(\frac{-3}{8}\right)^{4}} =$

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

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

(i) $\left(\frac{-21}{10}\right)^{2}$ (ii) $\left(\frac{-25}{12}\right)^{2}$ (iii) $\left(\frac{-25}{12}\right)^{5}$ (iv) $\left(\frac{-29}{14}\right)^{2}$ (v) $\left(\frac{-25}{12}\right)^{(-1)}$

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

(i) $\left(\frac{17}{4}\right)^{2}$ (ii) $\left(\frac{4}{3}\right)^{(17/4)}$ (iii) $\left(\frac{4}{3}\right)^{(9/2)}$ (iv) $\left(\frac{4}{3}\right)^{(25/6)}$ (v) $\left(\frac{2}{3}\right)^{(17/4)}$

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9. $\frac{(-2)^{-8}}{(-2)^{5}} =$

(i) $(-2)^{-12}$ (ii) $(-2)^{-14}$ (iii) $(-5)^{-13}$ (iv) $(-2)^{-13}$ (v) $(-2)^{-10}$

$$\left(\frac{-8}{7}\right)^{9}$$

10. $\frac{\quad}{\left(\frac{-8}{7}\right)^{4}} =$

(i) $\left(\frac{-8}{7}\right)^{5}$ (ii) $\left(\frac{-8}{7}\right)^{6}$ (iii) $\left(\frac{-8}{7}\right)^{4}$ (iv) $\left(\frac{-6}{7}\right)^{5}$ (v) $\left(\frac{-10}{7}\right)^{5}$

11. $\frac{(-6)^{-4}}{(-6)^{\left(\frac{-5}{4}\right)}} =$

(i) $(-4)^{\left(\frac{-11}{4}\right)}$ (ii) $(-9)^{\left(\frac{-11}{4}\right)}$ (iii) $(-6)^{\left(\frac{-11}{4}\right)}$ (iv) $(-6)^{\left(\frac{-5}{2}\right)}$ (v) $(-6)^{\left(\frac{-7}{2}\right)}$

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

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

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

Assignment Key

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