



1.  $\left(\frac{8}{7}\right)^4 =$

- (i)  $\frac{8^4}{4^4}$  (ii)  $\frac{8^4}{10^4}$  (iii)  $\frac{8^3}{7^4}$  (iv)  $\frac{8^4}{7^4}$  (v)  $\frac{8^5}{7^4}$

2.  $\left(\frac{-3}{8}\right)^{-7} =$

- (i)  $\frac{(-3)^{-6}}{8^{-7}}$  (ii)  $\frac{(-3)^{-8}}{8^{-7}}$  (iii)  $\frac{(-3)^{-7}}{11^{-7}}$  (iv)  $\frac{(-3)^{-7}}{6^{-7}}$  (v)  $\frac{(-3)^{-7}}{8^{-7}}$

3.  $(-7)^7 =$

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

4.  $(-6)^{-6} =$

- (i)  $\left(\frac{1}{6}\right)^6$  (ii)  $\left(\frac{-1}{6}\right)^6$  (iii)  $\left(\frac{-1}{6}\right)^5$  (iv)  $\left(\frac{-1}{6}\right)^7$  (v)  $\left(\frac{-1}{2}\right)^6$

5.  $(-5)^4 =$

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

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

- (i)  $(-4)^{-10}$  (ii)  $(-6)^{-11}$  (iii)  $(-1)^{-11}$  (iv)  $(-4)^{-12}$  (v)  $(-4)^{-11}$

$$\left(\frac{-5}{8}\right)^{-2}$$

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

- (i)  $\left(\frac{-5}{8}\right)^{-12}$  (ii)  $\left(\frac{-7}{8}\right)^{-11}$  (iii)  $\left(\frac{-3}{8}\right)^{-11}$  (iv)  $\left(\frac{-5}{8}\right)^{-11}$  (v)  $\left(\frac{-5}{8}\right)^{-10}$

8.  $[(-6)^{-2}]^{-5} =$

- (i)  $(-6)^9$  (ii)  $(-4)^{10}$  (iii)  $(-6)^{10}$  (iv)  $(-6)^{11}$  (v)  $(-8)^{10}$

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

- (i)  $\frac{9}{7}$  (ii)  $\frac{13}{5}$  (iii)  $\frac{9}{2}$  (iv)  $\frac{9}{5}$  (v)  $\frac{5}{2}$

10.  $\left[\left(\frac{9}{7}\right)^4\right]^5 =$

- (i)  $\left(\frac{9}{7}\right)^{19}$  (ii) 1 (iii)  $\left(\frac{9}{7}\right)^{20}$  (iv)  $\left(\frac{11}{7}\right)^{20}$  (v)  $\left(\frac{9}{7}\right)^{21}$

11. Find the exponential notation of  $\left(\frac{-1}{4}\right)$

- (i)  $\frac{-1 \times 0}{2^2}$  (ii)  $\frac{-1 \times 1}{5^2}$  (iii)  $\frac{-1 \times 1}{2^2}$  (iv)  $\frac{(-1)^2 \times 1}{2^2}$  (v)  $\frac{-1 \times 1}{(-1)^2}$

12. Find the exponential notation of  $\frac{200}{9}$

- (i)  $\frac{2^3 \times 5^2}{0}$  (ii)  $\frac{2^3 \times 5^2}{6^2}$  (iii)  $\frac{2^2 \times 5^2}{3^2}$  (iv)  $\frac{2^3 \times 5^2}{3^2}$  (v)  $\frac{2^4 \times 5^2}{3^2}$

13. Find the exponential notation of  $(\frac{-75}{4})$

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

14. Find the exponential notation of  $\frac{9}{4}$

(i)  $(\frac{1}{2})^2$  (ii)  $(\frac{3}{2})^2$  (iii)  $\frac{3}{2}$  (iv)  $(\frac{3}{2})^3$  (v)  $(\frac{5}{2})^2$

15. Find the exponential notation of  $(\frac{-1}{28})$

(i)  $\frac{-1 \times 1}{2^2 \times 5}$  (ii)  $\frac{-1 \times 1}{2^2 \times 7}$  (iii)  $\frac{-1 \times 2}{2^2 \times 7}$  (iv)  $\frac{-1 \times 0}{2^2 \times 7}$  (v)  $\frac{-1 \times 1}{5^2 \times 7}$

16. Find the exponential notation of  $\frac{108}{7}$

(i)  $\frac{2^2 \times 3^3}{7}$  (ii)  $\frac{2^2 \times 3^3}{10}$  (iii)  $\frac{2^2 \times 3^3}{4}$  (iv)  $\frac{2^3 \times 3^3}{7}$  (v)  $\frac{2 \times 3^3}{7}$

17. Find the exponential notation of  $(\frac{-49}{6})$

(i)  $\frac{-1 \times 7^2}{5 \times 3}$  (ii)  $\frac{(-1)^2 \times 7^2}{2 \times 3}$  (iii)  $\frac{-1 \times 7^2}{2 \times 3}$  (iv)  $\frac{-2 \times 7^2}{2 \times 3}$  (v)  $\frac{-1 \times 7^2}{-1 \times 3}$

18. Find the exponential notation of  $(\frac{-3}{196})$

(i)  $\frac{(-1)^2 \times 3}{2^2 \times 7^2}$  (ii)  $\frac{-1 \times 3}{5^2 \times 7^2}$  (iii)  $\frac{-1 \times 3}{2^2 \times 7^2}$  (iv)  $\frac{-2 \times 3}{2^2 \times 7^2}$  (v)  $\frac{-1 \times 3}{2^{-1} \times 7^2}$

## Assignment Key

1) (iv)	2) (v)	3) (v)	4) (ii)	5) (i)	6) (v)
7) (iv)	8) (iii)	9) (iv)	10) (iii)	11) (iii)	12) (iv)
13) (i)	14) (ii)	15) (ii)	16) (i)	17) (iii)	18) (iii)