



1.  $(n^4)^4 =$

- (i) 1 (ii)  $n^8$  (iii)  $n^4$  (iv)  $n^{16}$  (v)  $4n^4$

2.  $\frac{\sqrt{16}}{\sqrt{8}} =$

- (i)  $\sqrt{24}$  (ii)  $\sqrt{128}$  (iii)  $16\sqrt{8}$  (iv)  $\sqrt{8}$  (v)  $8\sqrt{8}$

3.  $(j^6k^5)^9 =$

- (i)  $j^{54}k^{45}$  (ii)  $j^{15}k^{14}$  (iii)  $9j^6k^5$  (iv)  $9j^{54}k^{45}$  (v)  $9j^{15}k^{14}$

4.  $(-5x^4y^6)^5 =$

- (i)  $-3125x^{20}y^{30}$  (ii)  $-3125x^9y^{11}$  (iii)  $-25x^9y^{11}$  (iv)  $-25x^{20}y^{30}$  (v)  $-5x^{20}y^{30}$

5.  $\left(\frac{f^{10}}{f^4}\right)^3 =$

- (i)  $3f^{14}$  (ii)  $f^{120}$  (iii)  $3f^6$  (iv)  $f^{42}$  (v)  $f^{18}$

6.  $\left(\frac{k^5j^5}{m^2}\right)^6 =$

- (i)  $\left(\frac{k^{30}j^{30}}{m^8}\right)$  (ii)  $\left(\frac{k^{30}j^{30}}{m^{12}}\right)$  (iii)  $\left(\frac{k^{11}j^{11}}{m^{12}}\right)$  (iv)  $\left(\frac{6k^5j^5}{6m^2}\right)$  (v)  $\left(\frac{k^{11}j^{11}}{m^8}\right)$

7.  $\frac{\sqrt{10}w^{13}}{\sqrt{9}w^2} =$

- (i)  $\sqrt{w}^{15}$  (ii)  $\sqrt{23}w^{11}$  (iii)  $\sqrt{w}^{11}$  (iv)  $\sqrt{19}w^{11}$  (v)  $\sqrt{19}w^{15}$

8.  $\frac{p^8}{p^{11}} =$

- (i)  $\frac{1}{p^{88}}$  (ii)  $\frac{1}{p^{19}}$  (iii)  $\frac{1}{p^{(-3)}}$  (iv)  $\frac{1}{p^3}$  (v)  $p^3$

9.  $(e^4)^{(f+7)} =$

- (i)  $e^{(f+32)}$  (ii)  $e^{(4f+28)}$  (iii)  $e^{(f+15)}$  (iv)  $e^{(4f+11)}$  (v)  $e^{(4f-28)}$

10.  $\left(\frac{r^9}{s^3}\right)^t =$

- (i)  $\frac{s^{3t}}{r^{9t}}$  (ii)  $\frac{r^{9t}}{s^{3t}}$  (iii)  $r^{9t} \cdot s^{3t}$  (iv)  $r^{9t} \cdot -s^{3t}$

11.  $\left(\frac{c^{14}}{c^2}\right)^3 =$

- (i)  $c^{14}$  (ii)  $c^{36}$  (iii)  $c^2$  (iv)  $c^{16}$  (v)  $3c^{36}$

12.  $(d^{11d})^9 =$

- (i)  $9d^{99d}$  (ii)  $d^{(11d+9)}$  (iii)  $d^{11d}$  (iv)  $d^{99d}$

13.  $(g+h)^3 \cdot (g+h)^{(-3)} =$

- (i)  $(g+h)^{(-3)}$  (ii)  $(g+h)^{(-9)}$  (iii)  $(g+h)^3$  (iv)  $(g+h)^6$  (v) 1

14.  $\frac{3q^{(-8)}}{4u^{(-3)}} =$

- (i)  $\frac{4u^{(-3)}}{3q^{(-8)}}$  (ii)  $\frac{4u^3}{3q^8}$  (iii)  $\frac{3q^3}{4u^8}$  (iv)  $\frac{3u^{(-3)}}{4q^{(-8)}}$  (v)  $\frac{3u^3}{4q^8}$

15.  $(d^{(-4)} + e^{(-4)})^0 =$

- (i) 1 (ii) 3 (iii)  $d^{(-4)} + e^{(-4)}$  (iv) (-2) (v) 0

## Assignment Key

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