



1.  $\log_{81} 6561 =$

- (i) 0 (ii) 4 (iii) 3 (iv) 2 (v) 1

2.  $\log_{125} 25 =$

- (i) 0.6667 (ii) 7.6667 (iii) 2.6667 (iv) 1.6667 (v) 8.6667

3.  $\log_{25} 625 =$

- (i) 1 (ii) 4 (iii) 3 (iv) 0 (v) 2

4.  $\log_{36} 216 =$

- (i) 2.5 (ii) 9.5 (iii) 0.5 (iv) 1.5 (v) 3.5

5.  $\log_{16} 64 =$

- (i) 2.5 (ii) 3.5 (iii) 1.5 (iv) 9.5 (v) 0.5

6.  $\log_{125} 625 =$

- (i) 3.3333 (ii) 0.3333 (iii) 9.3333 (iv) 2.3333 (v) 1.3333

7.  $\log_{10000} 1000 =$

- (i) 1.75 (ii) 2.75 (iii) 8.75 (iv) 7.75 (v) 0.75

8.  $\log_{27} 9 =$

- (i) 0.6667 (ii) 7.6667 (iii) 1.6667 (iv) 2.6667 (v) 8.6667

9.  $\log_{4096} 512 =$

- (i) 7.75 (ii) 2.75 (iii) 1.75 (iv) 0.75 (v) 8.75

10.  $\log_4 8 =$

- (i) 2.5 (ii) 3.5 (iii) 1.5 (iv) 0.5 (v) 9.5

11.  $\log_{256} 64 =$

- (i) 0.75 (ii) 8.75 (iii) 7.75 (iv) 2.75 (v) 1.75

12.  $\log_{729} 81 =$

- (i) 8.6667 (ii) 2.6667 (iii) 7.6667 (iv) 0.6667 (v) 1.6667

13. The base of  $\log_3 77$  is

- (i)  $3^{-1}$  (ii) 77 (iii) 2 (iv) 5 (v) 3

14. The base of  $\log_{10} \frac{32}{69}$  is

- (i) 12 (ii) 10 (iii) 7 (iv) 9 (v)  $\frac{32}{69}$

15. The base of  $\log_{7.00} 67.0000$  is

- (i) 4 (ii) 6 (iii) 7 (iv) 9 (v) 67

16. The base of  $\log_5 61^5$  is

- (i) 2 (ii) 5 (iii) 8 (iv)  $61^5$  (v) 4

17. The base of  $\log_{\frac{1}{2}} 45$  is

- (i) 45 (ii) 1 (iii)  $\frac{1}{2}$  (iv)  $(\frac{-1}{2})$  (v)  $\frac{3}{2}$

18. The base of  $\log_{\frac{3}{5}} \frac{1}{11}$  is

- (i) 1 (ii)  $\frac{3}{5}$  (iii)  $\frac{1}{11}$  (iv)  $\frac{1}{5}$

19. The base of  $\log_{\frac{1}{4}} 11^{10}$  is

- (i)  $\frac{3}{4}$  (ii)  $11^{10}$  (iii)  $\frac{1}{2}$  (iv)  $\frac{1}{4}$  (v)  $(\frac{-1}{4})$

20. The logarithmic notation of  $5^5 = 3125$  is

- (i)  $\log_5 3124 = 5$  (ii)  $\log_5 3125^2 = 5$  (iii)  $\log_5 3125 = 5$  (iv)  $\log_5 3127 = 5$  (v)  $\log_2 3123 = 5$

21. The base exponent form of  $\log_7 2401 = 4$  is

- (i)  $4^7 = 2401$  (ii)  $7^3 = 2401$  (iii)  $7^4 = 2401$  (iv)  $9^4 = 2401$  (v)  $7^5 = 2401$

22.  $\log_{48^7} 48^{22} =$

- (i) 4.1429 (ii) 2.1429 (iii) 5.1429 (iv) 3.1429 (v) 1.1429

## Assignment Key

1) (iv)	2) (i)	3) (v)	4) (iv)	5) (iii)	6) (v)
7) (v)	8) (i)	9) (iv)	10) (iii)	11) (i)	12) (iv)
13) (v)	14) (ii)	15) (iii)	16) (ii)	17) (iii)	18) (ii)
19) (iv)	20) (iii)	21) (iii)	22) (iv)		