



1. Find the LCM of {140,80,90,70}

- (i) 5040 (ii) 5039 (iii) 5042 (iv) 5037 (v) 5041

2. $\log 58 + \log 43 =$

- (i) $\log 2494^2$ (ii) $\log 2497$ (iii) $\log 2494$ (iv) $\log 2492$ (v) $\log 2493$

3. Simplify the expression $\left(\frac{4}{3}\right)^{(7/6)} \times \left(\frac{4}{3}\right)^{(7/6)}$

- (i) $2^{\left(\frac{7}{3}\right)}$ (ii) $\left(\frac{2}{3}\right)^{(7/3)}$ (iii) $\left(\frac{4}{3}\right)^3$ (iv) $\left(\frac{4}{3}\right)^{(7/3)}$ (v) $\left(\frac{4}{3}\right)^{(11/5)}$

4. Find the exponential notation of $18 \times 18 \times 18 \times 18 \times 18 \times 18 \times 18 \times 18$

- (i) 18^7 (ii) 18^9 (iii) 20^8 (iv) 18^8 (v) 15^8

5. Find the total number of factors of 14

- (i) 1 (ii) 5 (iii) 6 (iv) 3 (v) 4

6. The base of $\log_5 57$ is

- (i) 4 (ii) 8 (iii) 3 (iv) 57 (v) 5

7. The base in the term $\left(\frac{5}{2}\right)^2$ is

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

8. $\log 0.1852 - \log 0.8182 =$

- (i) $\log 0.2263$ (ii) $\log 7.2263$ (iii) $\log 8.2263$ (iv) $\log 1.2263$ (v) $\log 2.2263$

9. $\log \frac{4}{19} - \log \frac{3}{4} =$

- (i) $\log \left(\frac{16}{57} \right)$ (ii) $\log \frac{6}{19}$ (iii) $\log \frac{16}{57}$ (iv) $\log \frac{16}{55}$ (v) $\log \frac{14}{57}$

10. Find the period of the recurring decimal $30.\overline{962}$

- (i) 9620 (ii) 3 (iii) 962 (iv) 96 (v) 4

11. $\log 66 - \log 76 =$

- (i) $\log \frac{31}{38}$ (ii) $\log \frac{35}{38}$ (iii) $\log \left(\frac{33}{38} \right)$ (iv) $\log \frac{11}{12}$ (v) $\log \frac{33}{38}$

12. $\log 80.9100 - \log 57.6300 =$

- (i) $\log 3.4040$ (ii) $\log 1.4040$ (iii) $\log 2.4040$ (iv) $\log 9.4040$ (v) $\log 0.4040$

13. $\log_9 \frac{2}{5} =$

- (i) $\log \frac{2}{5} + \log 9$ (ii) $\log \frac{2}{5} - \log 9$ (iii) $\log 9 \div \log \frac{2}{5}$ (iv) $\log \frac{2}{5} \times \log 9$ (v) $\log \frac{2}{5} \div \log 9$

14. Simplify the expression ${}_2 \binom{3}{2} \times {}_2 \binom{3}{2}$

- (i) 5^3 (ii) $(-1)^3$ (iii) 2^3 (iv) 2^2 (v) 2^4

15. Find the product of LCM and HCF of {6,27}

- (i) 160 (ii) 165 (iii) 162 (iv) 163 (v) 161

16. Express $\frac{627}{1000}$ as a decimal correct to 3 decimal places

- (i) 0.627 (ii) 6.27 (iii) 0.727 (iv) 0.063 (v) 0.427

17. $\log 0.4659 + \log 0.9677 =$

- (i) $\log 1.4509$ (ii) $\log 7.4509$ (iii) $\log 8.4509$ (iv) $\log 0.4509$ (v) $\log 2.4509$

18. Convert the non-terminating recurring decimal $27.22222222222222\dots$ to rational number

- (i) 27 (ii) $\frac{245}{11}$ (iii) $\frac{247}{9}$ (iv) 35 (v) $\frac{245}{9}$

19. Find the total number of factors of 60

- (i) 11 (ii) 10 (iii) 12 (iv) 14 (v) 13

20. $\log_{36} 216 =$

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

21. $\log_2 73 =$

- (i) $\log 73 \times \log 2$ (ii) $\log 73 - \log 2$ (iii) $\log 73 \div \log 2$ (iv) $\log 73 + \log 2$ (v) $\log 2 \div \log 73$

Find the exponential notation of

22. $\left(\frac{-7}{3}\right) \times \left(\frac{-7}{3}\right) \times \left(\frac{-7}{3}\right) \times \left(\frac{-7}{3}\right)$

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

23. $\log 8^5 + \log 8^{10} =$

- (i) $\log 8^{15}$ (ii) $\log 8^{14}$ (iii) $\log 10^{15}$ (iv) $\log 5^{15}$ (v) $\log 8^{16}$

24. $\log_{9.05} 25.6100 =$

- (i) $\log 25.6100 + \log 9.05$ (ii) $\log 25.6100 \times \log 9.05$ (iii) $\log 25.6100 - \log 9.05$ (iv) $\log 9.05 \div \log 25.6100$
(v) $\log 25.6100 \div \log 9.05$

25. Simplify the expression ${}_3\left(\frac{-5}{8}\right) \times {}_3\left(\frac{-5}{8}\right)$

- (i) ${}_5\left(\frac{-5}{4}\right)$ (ii) ${}_3\left(\frac{-5}{6}\right)$ (iii) 1 (iv) ${}_3\left(\frac{-5}{2}\right)$ (v) ${}_3\left(\frac{-5}{4}\right)$

Assignment Key

1) (i)	2) (iii)	3) (iv)	4) (iv)	5) (v)	6) (v)
7) (iii)	8) (i)	9) (iii)	10) (iii)	11) (v)	12) (ii)
13) (v)	14) (iii)	15) (iii)	16) (i)	17) (iv)	18) (v)
19) (iii)	20) (i)	21) (iii)	22) (ii)	23) (i)	24) (v)
25) (v)					