

CUET NUMBER SYSTEMS

Q1. Simplify:-

- i. $18-[6-\{4-(18-6+3)\}]$
- ii. 9 of $9\div 9+5/5\div 9$ of $1\times 9+5$
- iii. $\{(10\frac{1}{3}-\frac{2}{9})\div \frac{5}{18}\}$ of $(\frac{3}{18}+\frac{1}{4})$
- iv. A). $3+\frac{1}{\frac{1+1}{1+3}}$ B). $4+\frac{1}{\frac{1+1}{1+1}}$
- v. $\frac{52+(15)2+(30)3}{(30)3-(15)3-(5)3}$

Q.2 Find the H.C.F of the following pairs of numbers. :-

- a. 138, 480
- b. 121, 1331
- c. 21, 13
- d. 17, 53

Q.3 Find the L.C.M of the following numbers :-

- a. 31, 23
- b. 48, 192
- c. 12, 13
- d. 25, 35

Q.4 The Sum of Two numbers is 10 and the product of there H.C.F and L.C.M is 24. Find the number's

Q.5 Arrange the following in ascending order.

- a. $1/4, 3/18, 4/7, 6/13$
- b. $\sqrt{3}, \sqrt{5}, \sqrt{13}, \sqrt{4}$
- c. $0.32, 0.\overline{3}, 0.31, 0.33$

Q.6 Change the following decimals into fractions.

- I. 10.451
- II. 10.452
- III. 10.452

Q.7 For what value of x , the number $1235x2$ us completely divisible by:-

- a. 3
- b. 4
- c. 6
- d. 8
- e. 9
- f. 11

Q.8 The number $152x57y$ is completely divisible by 2 ,3, 5 and 11 find the value of x & y .

Q.9 Solve for x, y, z

- I. $2^2 = 64$
- II. $225^{x+1} = 3\sqrt{15}$
- III. $\{5+\frac{1}{2} \text{ of } 30\div 15-20\} = 1$
- IV. $2^{x+1} \times 3^{y3} \times 5^{\sqrt{}} = 6000$

Q.10 If $4^a = 5^b = 20^c$, then , find the value of c ?