

(Time: - 01 Hour)

Instructions to the students:

- i) All questions are compulsory. ii) Figures to the right indicate full marks.  
iii) Calculator is not allowed. iv) Assume suitable data, if necessary.

Q. No Sub Question

CO Marks BL  
CO1 5 L2

1 a) Perform addition with balance method.

$$\begin{array}{r} 1) \quad 45873 \\ \quad 389407 \\ \quad \quad 32689 \\ + \quad 256988 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 46821 \\ \quad 61221 \\ \quad \quad 38307 \\ + \quad 4596 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 384107 \\ \quad 98613 \\ \quad \quad 2415 \\ + \quad 21212 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 229698 \\ \quad 15456 \\ \quad \quad 61421 \\ + \quad 33407 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 105684 \\ \quad 61421 \\ \quad \quad 38007 \\ + \quad 42189 \\ \hline \end{array}$$

OR

b) Perform addition with Dashkam method.

CO1 5 L2

$$\begin{array}{r} 1) \quad 75872 \\ \quad 23569 \\ \quad \quad 87596 \\ + \quad 89698 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 629814 \\ \quad 985688 \\ \quad \quad 369872 \\ + \quad 41918 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 73014 \\ \quad 56987 \\ \quad \quad 36589 \\ + \quad 56298 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 505578 \\ \quad 258749 \\ \quad \quad 2536 \\ + \quad 425362 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 983587 \\ \quad 752188 \\ \quad \quad 896933 \\ + \quad 23699 \\ \hline \end{array}$$

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c) Perform subtraction with Vinculum method.

$$\begin{array}{r} 1) \quad 75872 \\ - \quad 15295 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 629814 \\ - \quad 441918 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 73014 \\ - \quad 56298 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 505578 \\ - \quad 258749 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 983587 \\ - \quad 752188 \\ \hline \end{array}$$

OR

d) Perform Rapid subtraction.

$$\begin{array}{r} 1) \quad 569874 \\ - \quad 365287 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 83789 \\ - \quad 5236 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 456987 \\ - \quad 89639 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 635298 \\ - \quad 325676 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 982369 \\ - \quad 759587 \\ \hline \end{array}$$

Q. No Sub Question

2 a) Perform Multiplication by Vedic Math's Method.

$$1) \quad 52689 * 11$$

$$2) \quad 569 * 256$$

$$3) \quad 96875 * 50$$

$$4) \quad 2387 * 250$$

$$5) \quad 9638 * 9999$$

OR

b) Perform Multiplication by base method ( solve any 2)

$$\begin{array}{r} 1) \quad 786 \\ * \quad 753 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 589 \\ * \quad 475 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 872 \\ * \quad 815 \\ \hline \end{array}$$

c) Perform division by Vedic Math's Method.

$$1) \quad 74577 / 25$$

$$2) \quad 1254 / 125$$

$$3) \quad 9985 / 50$$

$$4) \quad 65256 / 500$$

$$5) \quad 47125 / 250$$

OR

d) Perform division by Vedic Math's Method.

$$1) \quad 3375 / 11$$

$$2) \quad 97336 / 11$$

$$3) \quad 166375 / 11$$

$$4) \quad 531441 / 11$$

$$5) \quad 19683 / 11$$

CO1 5 L2

CO1 5 L2

CO CO2 Marks BL  
CO2 5 L2

CO2 5 L2

CO2 5 L2

CO2 5 L2

- BL - Bloom's Taxonomy Levels (1- Remember, 2- Understand, 3 - Apply, 4 - Analyze, 5 - Evaluate 6 - Create)
- CO- Course Outcomes