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G H Raisoni College of Engineering and Management, Pune  
(An Autonomous Institution affiliated to Savitribai Phule, Pune University)

Department of First Year B. Tech.

Term II (2024-25)

CAE-I

Subject Name :- Indian Knowledge System (23UHSL1202)

[Max. Marks-20]

[Time: 01 Hour]

Instructions to the candidates:

- 1) All questions compulsory.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.
- 5) Other Instructions, if any.

Q. No	Sub Question	CO	Marks	BL
1	a) Do addition with balance method. 1) $\begin{array}{r} 63989 \\ 238407 \\ 321689 \\ + 365820 \\ \hline \text{Ans} \end{array}$ 2) $\begin{array}{r} 98698 \\ 62221 \\ 56955 \\ + 45896 \\ \hline \text{Ans} \end{array}$ 3) $\begin{array}{r} 38407 \\ 985633 \\ 568955 \\ + 21512 \\ \hline \text{Ans} \end{array}$ 4) $\begin{array}{r} 25698 \\ 36586 \\ 62421 \\ + 38407 \\ \hline \text{Ans} \end{array}$ 5) $\begin{array}{r} 125684 \\ 562421 \\ 785968 \\ + 42589 \\ \hline \text{Ans} \end{array}$	CO2	5	L2
Or				
	✓b) Do addition with dot method or Dashkam method. 1) $\begin{array}{r} 369587 \\ 326584 \\ 325692 \\ + 938245 \\ \hline \text{Ans} \end{array}$ 2) $\begin{array}{r} 4897591 \\ 2356955 \\ 123456 \\ + 1235790 \\ \hline \text{Ans} \end{array}$ 3) $\begin{array}{r} 255412 \\ 745895 \\ 125689 \\ + 14125 \\ \hline \text{Ans} \end{array}$ 4) $\begin{array}{r} 547597 \\ 52478 \\ 235695 \\ + 2564 \\ \hline \text{Ans} \end{array}$ 5) $\begin{array}{r} 123568 \\ 2356666 \\ 1234756 \\ + 431259 \\ \hline \text{Ans} \end{array}$	CO2	5	L2

	✓c)	Do subtraction with Vinculum method.	CO2	5	L3
		1) $76186$ - $35295$ ----- Ans			
		2) $659814$ - $48958$ ----- Ans			
		3) $63014$ - $56698$ ----- Ans			
		4) $305578$ - $258987$ ----- Ans			
		5) $965428$ - $752699$ ----- Ans			

Or

	✓d)	Do subtraction with base method.	CO2	5	L3
		1) $525249$ - $345898$ ----- Ans			
		2) $123896$ - $32569$ ----- Ans			
		3) $456897$ - $327698$ ----- Ans			
		4) $23568$ - $8956$ ----- Ans			
		5) $853222$ - $458967$ ----- Ans			

Q. No	Sub Question		CO	Marks	BL
2	✓a)	Do Multiplication with base method. (Any 2)	CO2	5	L3
		1) $3125$ X $3025$ ----- Ans $9453125$			
		2) $745$ x $798$ ----- Ans $26581$			
		3) $5102$ x $5210$ ----- Ans			

Or

	b)	Do Multiplication.	CO2	5	L3
		1) $86958 * 1111$			
		2) $96853 * 250$			
		3) $83125 * 99999$			
		4) $9975 * 9996$			
		5) $9x+23 * 12x+15$			

	c)	Do the Division	CO3	5	L4
		1) $32356/25$			
		2) $456894 / 250$			
		3) $12569 / 50$			
		4) $48795 / 1250$			
		5) $96385/125$ $771.080$			

Or

	d)	Do the division by Dhwanjka Method.(Any 2)	CO3	5	L4
		1) $747895 / 119$			
		2) $42588 / 87$			
		3) $569854 / 168$			