



## G H Raison College of Engineering and Management, Pune

(An Empowered Autonomous Institute affiliated to Savitribai Phule, Pune University, NAAC Accredited "A+" Grade)

F. Y. B. Tech. (All)

(TERM- II)

CAE II - SUMMER 2025 (2023 Pattern)

**Subject : Indian Knowledge System (23UHSL1202)**

(Time: - 01 Hour)

(Max. Marks: 20)

Instructions to the students:

- i) All questions are compulsory. ii) Neat diagrams must be drawn wherever necessary.  
 iii) Figures to the right indicate full marks. iv) Use of scientific calculator is allowed  
 v) Assume suitable data, if necessary.

Q.No	Question	Marks	CO	BL
Q1.(a)	Find the cubes roots of the following nos. 1) 493039    2) 287496    3) 3176523    4) 42875    5) 2097152	[5]	CO2	L2
<b>OR</b>				
(b)	Find the Square roots of the following nos. 1) 5184    2) 1296    3) 7744    4) 9216    5) 5041	[5]	CO2	L2
✓(c)	Find the cubes of the following nos. 1) 71    2) 305    3) 15    4) 994    5) 55	[5]	CO2	L2
<b>OR</b>				
(d)	Find the Square of the following nos. 1) 5    2) 98    3) 375    4) 5701    5) -496	[5]	CO2	L2
✓Q 2.(a)	Find the average no in the following nos. 1) 3412 to 5416 (Even no). 2) 5919, 5921, 5923, 5925, 5927, 5929, 5931, 5933. 3) -2413 to -3615 (odd no) 4) 5611 to 5650 (consecutive no) 5) 4211 to -5213 (odd no)	[5]	CO2	L2
<b>OR</b>				
(b)	Find the Pythagorean Value of the following nos. 1) 25    2) 20    3) 17    4) 16    5) 9	[5]	CO2	L2
✓(e)	Do the Equations. 1) $5x-3y=18$ $2x+4y=54$ 2) $4x-2y=18$ $2x-3y=15$	[5]	CO3	L2
<b>OR</b>				
✓(d)	Do the Equations. 1) $5X+3=3X+11$ 2) $9X+5=3X+23$ 3) $7X-6=3X+10$ 4) $4X+7=2X+5$ 5) $10X+4=5X-6$	[5]	CO3	L2

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