

Slot: B1

## School of Computer Science Engineering and Information Systems

Winter Semester 2024-2025 Continuous Assessment Test – II

Programme Name & Branch: MCA

Course Name & code: PMCA507L - Machine Learning

**Class Number (s):** 3328 and 3334

Faculty Name (s): Dr. Parimala M & Dr. Anitha A

Exam Duration: 90 Min. Maximum Marks: 50

**General instruction(s):** Answer All Questions

CO - Course Outcome; BL - Blooms Taxonomy Level (1 - Remember, 2 - Understand, 3 -

Apply, 4 – Analyze, 5 – Evaluate, 6 – Create)

**Course Outcomes:** 

CO2: Provide solutions for classification, regression, and clustering approaches in real world applications

CO3: Gain knowledge to combine machine learning models to achieve better results

Q.No	Question					Max	CO	BL
•						Mark		
1.						<b>s</b>	СО	BL
1.	Age	Likes height	Likes goats	Go rock climbing		10	2	3
	23	0	0	0				
	31	1	1	1				
	35	1	0	1				
	35	0	0	0				
	42	0	0	0				
	43	1	1	1				
	45	0	1	0				
	46	1	1	1				
	46	1	0	0				
	51	1	1	1				
	Construct a Decision Tree for the above dataset. Use Information gain to split the tree for one iteration. Note: Convert the values of "Age" attribute into two class labels such as ">=40.5" and "<40.5"							

2.	Likes goats  (1) (1)	10	СО	BL
2.	kNN algorithm with k=3. Predict the class label for the input feature "Age=35, Likes height=0, Likes goats=1, Go rock climbing=??"	10	2	4



