GOPALAN COLLEGE OF ENGINEERING AND MANAGEMENT
Whitefield, Bengaluru

Gopalan College of Engineering and Management

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INTERNAL ASSESSMENT TEST - 1

Academic Year 2024-25	**Program** B.E.	**Dept.** Computer Science	**Scheme** Scheme 2022
Year/Sem/Section 1st / 2nd	**Date** 30-10-2025	**Duration** 90 minutes	**Max. marks** 50
Course title Machine Learning		**Course code** BCS602	**Credits** 4
Session Evening	**Time** 9:30 - 11:30		

Q. No.	Questions	Marks	CO	RBT
1	**a)** Analyze Grid based approach and mention the steps of CLIQUE along with advantages and drawbacks. **b)** What is data? Explain the different elements of data	20	CO5 | CO1	L3 | L2
	OR			
2	**a)** Explain Candidate Elimination algorithm with an example **b)** Describe the CART algorithm. What is the GINI index	20	CO1 | CO1	L2 | L2
3	**a)** What is Locally Weighted Regression (LWR)? Explain how it works using nearest neighbors **b)** Explain the data management steps included in the big data processing	20	CO3 | CO1	L2 | L2
	OR			
4	**a)** Analyze different types of Artificial Neural Networks with suitable diagrams	20	CO4 | CO1	L2 | L3

	b) Find the five-point summary of the list: {13, 11, 2, 3, 4, 8, 9}			
5	**a)** Differentiate between uniform weighting and distance-based weighting in weighted k-NN	10	CO3	L2
OR				
6	**a)** Briefly explain the different types of Machine Learning with the help of example	10	CO1	L2

Course Outcomes (COs)

CO No.	At the end of the course, students will be able to...
CO1	To introduce the fundamental concepts and techniques of machine learning
CO2	To understanding of various types of machine learning and the challenges faced in real world applications.
CO3	To familiarize the machine learning algorithms such as regression, decision trees, Bayesian models, clustering, and neural networks
CO4	To explore advanced concept like reinforcement learning and provide practical insight into its applications
CO5	To enable students to model and evaluate machine learning solutions for different types of problems

Revised Bloom's Taxonomy (RBT) Levels

L1	L2	L3	L4	L5	L6
Remember	Understand	Apply	Analyze	Evaluate	Create

Prepared by Approved by PRINCIPAL