

Malla Reddy Engineering College (Autonomous)

Maisammaguda, Dhulapally (Post via Kompally), Secunderabad – 500 100.

III B.TECH - II Semester (MR17) I MID EXAMNATIONS

Subject: Machine Learning

Branch: III CSE

Time Duration: 90 Minutes

Instructions:

1. All the questions carry equal marks
2. Answer all the questions

MODULE I			
Q.No.	Question	Bloom's Taxonomy Level	CO
1.	Explain in detail about machine learning with suitable examples.	[Understanding]	1
OR			
2.	Demonstrate how machine learning can be used to solve the classical problems.	[Understanding]	1
OR			
3.	Build a consistent hypothesis set by applying Candidate Elimination algorithm on a sample dataset.	[Applying]	1
OR			
4.	Make use of List-Then-Eliminate Algorithm to generate consistent hypothesis.	[Applying]	1
OR			
5.	Illustrate the applications of Machine Learning.	[Understanding]	1
OR			
6.	Explain how to design a learning system for checkers problem.	[Understanding]	1
OR			
7.	Interpret the effect of inductive bias and unbiased learning in development of machine learning models.	[Understanding]	1
OR			
8.	Infer the remarks on Version Spaces and candidate elimination algorithms.	[Understanding]	1
MODULE II			
Q.No.	Question	Bloom's Taxonomy Level	CO
1.	Explain in detail about appropriate problems for decision tree learning.	[Understanding]	2
OR			

2.	Demonstrate the representation of decision trees with suitable examples.	[Understanding]	2
3.	Apply ID3 algorithm on a sample dataset to construct a decision tree.	[Applying]	2
OR			
4.	Make use of entropy and information gain and illustrate how these measures are used in decision tree construction.	[Applying]	2
OR			
5.	Illustrate the concept of Perceptron in Neural Network learning.	[Understanding]	2
6.	Demonstrate how hypotheses of machine learning models can be tested.	[Understanding]	2
OR			
7.	Explain in detail about Back Propagation algorithm	[Understanding]	2
OR			
8.	Summarize the concept of error estimation and binomial distribution.	[Understanding]	2

MODULE III			
Q.No.	Question	Bloom's Taxonomy Level	CO
1	Illustrate brute force Bayes Concept learning.	[Understanding]	3
OR			
2	Explain about Minimum Description Length principle.	[Understanding]	3
3	Infer about Maximum Likelihood and least squared error hypothesis.	[Understanding]	3
OR			
4	Demonstrate the process of gradient search to maximize likelihood in a Neural Net.	[Understanding]	3