

Roll No.

--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 01

Total No. of Questions : 08

M.Tech. (CSE Engg.) Big Data (PIT) (Sem.-2)

MACHINE LEARNING

Subject Code : CSBE-217

Paper ID : [51093]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWELVE marks.

- Q1 a) Describe the perspectives and issues in Machine Learning. (6)
b) How decision trees are used in Machine Learning? (6)
- Q2 a) What is LMS Algorithm? How it is used in supervised learning? (6)
b) What are support vector machines? Discuss its uses. (6)
- Q3 a) Write the steps to evaluate Machine Learning Algorithms. (6)
b) Write a short note on feature selection methods in Machine Learning. (6)
- Q4 What is PCA in machine learning? How to calculate the Principal component Analysis? (12)
- Q5 Define following :
a) Use of Machine Learning in speech recognition. (6)
b) Heuristic space search. (6)
- Q6 What is naive Bayes classifier algorithm? How we can make Predictions with Naive Bayes classifier? (12)
- Q7 What are learning sets of rules in Machine Learning? Discuss the sequential covering approach to learning rules. (12)
- Q8 a) How EM algorithm is used for data clustering in machine learning? (6)
b) What is hypothesis space in machine learning? (6)