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Total No. of Pages : 01

Total No. of Questions : 08

M.Tech. (CSE Engg)E-I (2018 Batch) (Sem.-1)**MACHINE LEARNING****Subject Code : MTCS-105-18****Paper ID : [75155]****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. Describe Linear regression with an example.
- Q2. Explain how naive-bayes algorithm is useful for learning and classifying text.
- Q3. What is IOT? How is machine learning helpful in it? Discuss the various models for IOT Applications
- Q4. What are the objectives of ensemble methods? Write short notes on the various ensemble methods in machine learning.
- Q5. Write short notes on :
- a) Semi-Supervised learning
 - b) Active learning
- Q6. What is the purpose of k-means algorithm? Write down the basic algorithm for k-means and explain with help of a graphical example.
- Q7. What are the steps in Back propagation algorithm? Why a Multilayer neural network is required?
- Q8. Differentiate between supervised and unsupervised learning techniques. Support your answer with suitable examples clearly distinguishing between applications of the above two.