[EID-403]
B.Tech. Degree Examination

CSE/IT
VII SEMESTER

MACHINE LEARNING
(Effective from the admitted batch 2015–16)

Time: 3 Hours   **Max.Marks: 60**

Instructions: Each module carries 12 marks.
Answer all modules choosing one question from each module.
All parts of the module must be answered in one place only.
Figures in the right hand margin indicate marks allotted.

MODULE-I

1. What is decision tree learning? What are issues in it? How are they handled?   12

OR

2. What are the key tasks of machine learning? Explain in detail   12

MODULE-II

3. Describe in brief about genetic programming and parallelizing GA   12

OR

4. What are the steps in Back propagation algorithm? Why a Multilayer neural network is required?   12

MODULE-III

5. How to estimate difference in error between two hypotheses using error $D^{(h)}$ and error $S^{(h)}$?   12

OR

6. How is Naïve Bayes algorithm useful for learning and classifying text?   12

MODULE-IV

7. Describe k-nearest neighbor algorithm. Why is it called instance based learning?   12

OR

8. Explain in brief about linear regression technique   12

MODULE-V

9. Explain Hidden Markov models in detail   12

OR

10. Discuss in brief about the three basic problems associated with HMM evaluation   12