



- a. What is the entropy of this collection of training example with respect to the target function classification?
  - b. What is the information gain of  $a_2$  relative to these training examples?
5. How is Naive Bayes algorithm useful for learning and classifying text?
6. Write a note on the IOT applications that use machine learning. Explain with suitable examples.
7. Explain:
  - a. Penalty and award in Reinforcement learning
  - b. Graphical Models in Scalable Machine Learning
8. Write a note on Ensemble machine learning. Explain with concrete examples.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**