Answer any five questions
All questions carry equal marks
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1.a) Explain the candidate elimination algorithm and its limitations. Give example.
 b) What is the role of Inductive Bias in decision tree learning process? Discuss.   [8+7]

2.a) Explain the working of Find-S algorithm with suitable example.
 b) What is decision tree based learning? How it is represented? Give some problems for which decision tree based learning is appropriate.   [7+8]

3.a) What is meant by a perceptron and multilayer networks? How can a perceptron learn? Explain.
 b) How to find the differences in error of two hypotheses? Explain.   [8+7]

4.a) What is learning? What is the role of learning algorithm in neural networks? Explain.
 b) Explain the backpropagartion algorithm with face recognition an example.   [8+7]

5.a) Explain the maximum likelihood hypothesis for predicting probabilities in Bayesian learning.
 b) What is case based reasoning? What are its applications? Explain.   [8+7]

6.a) State Baye's theorem. Illustrate Bayes theorem with an example.
 b) Describe about the mistake bound model of learning in detail.   [7+8]

7.a) Explain the basic algorithm for learning sets of First-Order Rules.
 b) Describe the sequential covering algorithm for learning disjunctive set of rules.   [7+8]

8.a) Discuss Explanation-Based learning of search control knowledge.
 b) What is the use of prior knowledge to initialize a hypothesis for learning? Explain.[7+8]

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