அரசினர் ஆடவர் கலைக்கல்லூரி (தன்னாட்சி), நந்தனம், சென்னை – 35.

CODE: **196608** TIME: 3Hrs

NOVEMBER 2020 MAX. MARKS : 50

PART A *(10 x 2=20)*

*Answer any **TEN** questions*

1. Define the term Decision Tree.
2. How can partially learned concept be used?
3. Why Prefer Short Hypotheses?
4. What is Perception Training Rule?
5. What is recurrent Network?
6. What is biological motivation in neural network?
7. Write the bayes theorem formula.
8. What is meant by likelihood in bayes theorem.
9. Define Radial Base Reasoning.
10. What do you mean by Case-Based Reasoning?.
11. Define Deductive Learning.
12. What is Temporal Difference Learning?

PART B *(2 x5=10)*

*Answer any **TWO** questions*

13. What are the Concept Learning tasks? Explain.
14. Discuss about the FIND-S: finding a maximally specific hypothesis.
15. Explain the Appropriate Problems for Neural network learning.
16. Discuss about the Gradient Descent and Delta Rule.
17. Briefly explain the Bayesian Belief Network.
18. Explain about the Gibbs Algorithm.
19. Discuss the Distance - Weighted Nearest neighbor algorithm.
20. Describe the Q function and algorithm for learning Q.

PART C *(2x10=20)*

*Answer any **TWO** questions*

21. Briefly explain the Basic Decision Tree Learning Algorithm.
22. Explain the Differential Threshold unit with BACKPROPAGATION algorithm
23. Give illustrative example of Naive Bayes Classifier.
24. Explain the two types of Locally Weighted Regression.
25. Discuss about the Explanation Based Learning.
