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Tutorial Unit 3
M Sc IT II Semester
PS02CINT33: Artificial Intelligence
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Short Questions/Objective Questions

1. What is artificial neuron?
2. List characteristic of an artificial neural network.
3. What is an activation/transfer/ processing function?
4. Give an example of activation function. (weighted sum, weighted avg, sigmod, etc.)
5. Name models of artificial neural network.
6. What is parallel relaxation?
7. Give structure of multiplayer perceptron.
8. List two main phases of learning in a typical multiplayer perceptron.
9. What is forward pass?
10. What is backward pass?
11. Name learning algorithm of multiplayer perceptron.
12. State true or false: Creditability of a multiplayer perceptron depends on its training data set.
13. State true or false: Learning from training data sets in presence of a control mechanism is called supervised learning.
14. State true or false: ANN is used for classification.
15. What is the advantage of an ANN?
16. Give a limitation of ANN.
17. Write an application of single perceptron.
18. Write an application of multiplayer perceptron.

Big Questions

19. Give an example of single perceptron of your choice by giving its diagram.
20. Explain Hopfield model in detail by giving its diagram and learning algorithm.
21. Design a multi layer perceptron for sales prediction.
22. Design a multi layer perceptron for selection of a job.
23. Design a multi layer perceptron for selection of a course.
24. Design a multi layer perceptron for selection of readymade garments.
25. Explain design heuristic in a multi layer neural network.
26. Explain learning in a multi layer neural network.