

Subject : **Neural Netowrks** (Elective – I)

Time : 3 Hours

Max. Marks: 75

Note: Answer all questions of Part-A and any Five questions from Part-B.

Part – A (25 Marks)

1. What is Rosenblatts perception model?
2. What are the basic learning laws?
3. What is hybrid intelligence?
4. What is the criterion used for neural network learning?
5. What are the limitations of Boltzman learning?
6. Describe the properties of a network.
7. Compare and contrast the biological neuron and artificial neuron.
8. Describe the weight initialization.
9. What are the applications of neural networks?
10. What do you mean by AI learning?

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Part – B (50 Marks)

11. Discuss single layer and multi layer perceptions.
12. Compare the Hopfield network algorithm with boltzman's machine algorithm.
13. Explain briefly the classification of different learning methods.
14. What is meant by associative memories? Explain Bi-directional associative memories in detail.
15. Discuss the differences between supervised and unsupervised learning.
16. Explain different methods of data representation.
17. Write a short note on the following :
 - a) Sigmoid functions 3
 - b) Neural information processing 3
 - c) Boltzman's algorithm 4
