

***B. Tech Degree VII Semester (Supplementary) Examination
June 2008***

**IT 701 NEURO COMPUTING
(1999 Scheme)**

Time : 3 Hours

Maximum Marks : 100

- I. (a) Distinguish between supervised and unsupervised learning. (10)
(b) Explain the concept of linear separability with XOR problem as an example. (10)
OR
- II. (a) What are recurrent networks? (8)
(b) Explain different classes of PDP models. (12)
- III. (a) Describe ADALINE model. (10)
(b) Write notes on : (i) Perceptron (ii) Delta rule. (10)
OR
- IV. (a) Explain the back propagation training algorithm for perceptron. (10)
(b) How neural networks can be used for image recognition? (10)
- V. (a) Describe the ART classification operation. (10)
(b) Explain the different phases of ART system. (10)
OR
- VI. Explain the architecture of ART. (20)
- VII. What are Hopfield networks? What are the applications of Hopfield networks? (20)
OR
- VIII. Explain BAM. (20)
- IX. (a) Describe the cognitron model. (10)
(b) Explain the training methods of cognitron. (10)
OR
- X. (a) Explain the training of Kohonen layer. (15)
(b) Write short notes on counter propagation networks. (5)

