Code No: OR420259 **OR**

IV B.Tech II Semester Supplementary Examinations, April/May 2005
NEURAL NETWORKS AND APPLICATIONS
(Electrical & Electronic Engineering)

Time: 3 hours **Max Marks: 70**

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) How do you justify that brain is a parallel distributed processing system?
   (b) Explain the structure of a brain.
2. Explain in detail the differences between competitive learning and differential competitive learning.
3. Write and discuss about Single layer Discrete Perceptron Training Algorithm.
4. Explain, why it is preferable to have different values of h for weights leading to the units in different layers in a feed forward neural network.
5. Discuss about the stability property of the dynamical system taking an example.
6. Explain MAXNET taking an example.
7. Explain how multilayer feed forward neural network can be used for character recognition. Use a sample of 7x10 pixel matrix for the recognition of letter A.
8. Explain how neurocomputing circuits can be modeled using digital and analog circuits.

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