Code :R7411510

**R7**

**IV B.Tech I Semester(R07) Supplementary Examinations, May/June 2011**
**NEURAL NETWORKS**
(Common to Computer Science & Systems Engineering, Electronics & Computer
Engineering)

**Time: 3 hours**                                                                 **Max Marks: 80**

**Answer any FIVE questions**
**All questions carry equal marks**
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1.  (a) Explain Mc Culloch-pitts neuron model
    (b) Write short notes on:
        i. Feed forward net
        ii. Competitive net
        iii. Recurrent net.

2.  (a) Explain Boltzmann learning.
    (b) Explain competitive learning.

3.  (a) Explain least mean square algorithm.
    (b) Explain perception convergence theorem.

4.  Explain about output representation and decision rule.

5.  Explain architecture and algorithm of Back propagation networks.

6.  Explain kohonen self organizing feature maps architecture and its training algorithm.

7.  (a) Explain dynamical systems.
    (b) Explain the manipulation of attractors as a recurrent network paradigm.

8.  Explain continuous Hopfield Net and its algorithm.

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