Code: R7411510

R07

B.Tech IV Year I Semester (R07) Supplementary Examinations, May 2013

NEURAL NETWORKS

(Common to CSS and ECC)

Time: 3 hours Max. Marks: 80

Answer any FIVE questions

All questions carry equal marks

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1 (a) Compare artificial and biological neural network.
(b) List the characteristics of neural networks.

2 (a) Discuss error correction learning.
(b) Explain in detail Hebbian learning rule.

3 (a) Explain unconstrained organization techniques.
(b) Define perceptron convergence theorem and write short notes on the evaluation of the theorem.

4 (a) Draw a model of multilayer perceptrol and explain its function.
(b) Explain back propagation algorithm for XOR problem.

5 (a) Explain network pruning techniques.
(b) Give the limitations of back propagation learning.

6 (a) List the properties of feature map.
(b) Explain learning vector quantization.

7 (a) With a neat figure, explain Neuro dynamical model.
(b) Write short notes on dynamical systems.

8 Write explanatory notes on:
(a) Network architectures.
(b) Hopfield model.

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