Code :R7411009

R7

IV B.Tech I Semester(R07) Supplementary Examinations, May/June 2011
ARTIFICIAL NEURAL NETWORKS
(Electronics & Instrumentation Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks
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1. Compare and contrast the biological neuron and artificial neuron.

2. Discuss and compare all learning Rule's.

3. Discuss the working of single layer perceptron and multi layer percetron with relevant algorithm and compare them.

4. (a) Explain Baye's classifier or Baye's hypothesis testing procedure.

   (b) Write about reduced strategy for optimum classification in Baye's classifier.

5. Explain Architecture of full counter propagation network and training phases of full CPN with relevant training algorithm.

6. (a) Explain briefly about hamming network.

   (b) What is the purpose of learning vector quantization?

7. (a) Write about generalized radial basis networks.

   (b) What are the approximation properties of radial basis function network (RBFN).

8. What is the difference between pattern recognition and classification? How artificial neural network is applied both?

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