Code.No: NR410405 | NR | SET-1

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
NEURAL NETWORKS
(COM. TO ECE, ETM, CSE, CSIT, CSS)

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

Answer any FIVE questions
All questions carry equal marks
- - -

1. a) Draw the diagram of a biological neuron?
   b) Compute biological neuron and artificial neuron. [8+8]

2. Write the steps for discrete perceptron training algorithm? [16]

3. Draw the schematic diagram of Hopfield network and explain its operation? [16]

4. Explain the architecture and training of Kohenen's Self organizing network? [16]

5. Write about the following
   a) Grossberg layer.
   b) Associative memory. [8+8]

6. Draw the architecture for ART network and explain? [16]

7. Explain how pattern recognition is achieved through artificial neural networks? [16]

8. Explain about delta learning using necessary equations? [16]

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Code.No: NR410405 | NR | SET-2

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
NEURAL NETWORKS
(COM. TO ECE, ETM, CSE, CSIT, CSS)

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

Answer any FIVE questions
All questions carry equal marks
- - -

1. Draw the schematic diagram of Hopfield network and explain its operation? [16]

2. Explain the architecture and training of Kohenen's Self organizing network? [16]

3. Write about the following
   a) Grossberg layer.
   b) Associative memory. [8+8]

4. Draw the architecture for ART network and explain? [16]

5. Explain how pattern recognition is achieved through artificial neural networks? [16]

6. Explain about delta learning using necessary equations? [16]

7. a) Draw the diagram of a biological neuron?
   b) Compute biological neuron and artificial neuron. [8+8]

8. Write the steps for discrete perceptron training algorithm? [16]

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Code.No: NR410405 | NR | SET-3

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
NEURAL NETWORKS
(COM. TO ECE, ETM, CSE, CSIT, CSS)

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

Answer any FIVE questions
All questions carry equal marks
- - -

1. Write about the following
   a) Grossberg layer.
   b) Associative memory. [8+8]

2. Draw the architecture for ART network and explain? [16]

3. Explain how pattern recognition is achieved through artificial neural networks? [16]

4. Explain about delta learning using necessary equations? [16]

5. a) Draw the diagram of a biological neuron?
   b) Compute biological neuron and artificial neuron. [8+8]

6. Write the steps for discrete perceptron training algorithm? [16]

7. Draw the schematic diagram of Hopfield network and explain its operation? [16]

8. Explain the architecture and training of Kohenen's Self organizing network? [16]

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Code.No: NR410405 | NR | SET-4

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
NEURAL NETWORKS
(COM. TO ECE, ETM, CSE, CSIT, CSS)

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

Answer any FIVE questions
All questions carry equal marks
- - -

1. Explain how pattern recognition is achieved through artificial neural networks? [16]

2. Explain about delta learning using necessary equations? [16]

3. a) Draw the diagram of a biological neuron?
   b) Compute biological neuron and artificial neuron. [8+8]

4. Write the steps for discrete perceptron training algorithm? [16]

5. Draw the schematic diagram of Hopfield network and explain its operation? [16]

6. Explain the architecture and training of Kohenen's Self organizing network? [16]

7. Write about the following
   a) Grossberg layer.
   b) Associative memory. [8+8]

8. Draw the architecture for ART network and explain? [16]

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