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## 3533

# B. Tech. 7th Semester (CSE) Examination – February, 2022

### NEURAL NETWORKS

Paper: PCC-CSE-401-G

Time: Three Hours ]

| Maximum Marks: 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after paymentum.

Note: Attempt five questions in all relecting one question from each Section. Question No. 1 is compulsory.

All questions carrie equal marks.

1. Explain the following :

5 . 3 = 15

- (a) A long Coming
- (b) Reinforcement learning.
- (c) Feedforward vs feedback Networks.
- (d) What is the need of Activation Functions in ANN?
- (e) Explain term Linear Separability classification.

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P. T. O.

#### SECTION - A

- What are biological neurons? How they resemble artificial neuron models. Compare and contrast biological neurons with Artificial Neural Networks. 15.
- 3. (a) Explain various architecture models of ANN with their corresponding advantages and disadvantages.
  - (b) What are Activation functions and why we need these functions in ANN? Also write significance of any three non-linear functions used in ANN. 7

#### SECTION - B

- 4. Discuss architecture of McChiben Pitts Neural Network model in detail. Also replain McCulloch Pitts model to design logic networks of AND and OR logic function.

  15
- Explain photopiron network training architecture in detail, 1050, Arms implementation of AND function using perception learning.

#### SECTION - C

- 6. (a) Differentiate between supervised and unsupervised learning. 8
  - (b) Explain Gradient Descent Algorithm in detail. 7

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7. (a)	Explain Error Back propagation algorithm detail.	15
(b)	Write short note on Delta Learning rule	
	SECTION - D	
8. (a)	Explain different type of Associative memories detail with example.	in 7
(b)	Write storage and Retrieval algorithm	
9. Exp	Tells bulling and decoding an detail of the state of the	
	downloaded in the second secon	
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