Roll No	
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24489

B. Tech. 7th Semester (CSE) Examination – December, 2016 NEURAL NETWORKS

Paper: CSE-407-F

Time: Three Hours]

[Maximum Marks: 100

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 examination.

Note: Attempts five questions in all, selecting at least one question from each Section. Question No. 1 is compulsory. All questions carry equal marks.

1. Explain the following:

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- (i) Delta learning rule
- (ii) Single layer reception classifier.
- (iii) Stability.
- (iv) Recall mode.

SECTION - I

2.	(i) Describe in detail about Biological Neurons.	10	
	(ii) What do you mean by Feed forward	and	
	Feedback Networks? Explain.	10	
3.	Define ANN. Describe in detail about different model		
	of ANN.	20	
	SECTION - II	•	
4.	Describe the following:		
	(i) Training is classification using disc		
	Receptron.	10	
	(ii) Generalized delta learning rule.	10	
5.	. Give a complete description about multi layer fee		
•	forward networks.	20	
	SECTION — III		
6.	What do you understand by single layer feedb	ack	
•	networks? Explain.	20	
7.	Describe the following:	20	
	(i) Association encoding & decoding.	. ,	
	(ii) By directional association memory.		

(2)

SECTION - IV

8.	Explain the following:	20
	(i) Seperability limitations.	
	(ii) Recall mode.	
`	(iii) Initialization of weights.	
9.	Give a complete description about self	organizing
	networks.	20