Hall Ticket Number :										

R11/R13

Code: 1G181

IV B.Tech. II Semester Supplementary Examinations December 2017

Artificial Neural Networks

(Computer Science and Engineering)

Max. Marks: 70 Time: 3 Hours

Answer any ***five*** questions

All Questions carry equal marks (**14 Marks** each)

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1.	a)	Explain Characteristics of Neural Networks?	5M
	b)	Explain About Different Models of Artificial Neuron?	9M
2.	a)	Explain Additive Activation Models in Activation Dynamics?	5M
	b)	Explain various Learning Methods in Activation and Synaptic Dynamics?	9M
3.	a)	Explain Functional Units in Pattern Recognition Tasks?	10M
	b)	Explain Types of Artificial Neural Networks?	4M
4.	a)	What is Back Propagation Law? Explain it?	8M
	b)	Explain About Analysis of Pattern Association Networks?	6M
5.	a)	Explain About State Transition Diagram?	7M
	b)	What are the Issues in Implementation of Boltzmann Learning?	7M
6.	a)	Explain Various Components of a Competitive Learning Network?	7M
	b)	Explain About Analysis of Pattern Clustering Networks?	7M
7.	a)	Explain about Associative Memory?	7M
	b)	Explain about Temporal Pattern and Pattern Variability?	7M
8.		Explain About Direct Applications in Artificial Neural Networks?	14M

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Hall Ticket Number :										

R-11 / R-13

Code: 1G187

IV B.Tech. II Semester Supplementary Examinations December 2017

Software Testing Methodologies

(Computer Science and Engineering)

Max. Marks: 70 Time: 3 Hours

Answer any **five** questions

All Questions carry equal marks (**14 Marks each**)

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1. Explain the following:
   (a) Structural bugs.
   (b) Coding bugs.

2. a) State and explain various kinds of predicate blindness with suitable examples.
   b) Define link counters? Discuss their use in path testing.

3. What is transaction flow? How it can be implemented? What are its uses?

4. a) What is a nice domain? Give an example for nice two-dimensional domains.
   b) Differentiate Nice and Ugly Domains.

5. How the parallel Terms and Loop Terms are removed in a flow graph? Explain with example.

6. a) Explain logic-based testing.
   b) Explain the testability tips of logic based testing.

7 a) Differentiate Good state graphs and Bad state graphs.
   b) With example, explain about the Transition bugs.

8. a) What is connection matrix? Explain with an example.
   b) Explain transpose, intersection and union of matrices

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