

Reg.No : 

--	--	--	--	--	--	--	--	--	--	--

**D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1**

**SEMESTER EXAMINATIONS**

**NOVEMBER – 2016**

**15CPCS3C**

---

---

**ARTIFICIAL NEURAL NETWORK**

---

---

**Time : 3 Hours**

**Max. Marks : 75**

**SECTION – A (5 x 6 = 30)**

**Answer ALL the questions.**

1. (a) Explain the general processing element of Artificial Neural Network System.  
(Or)  
(b) Explain Association and Classification models.
2. (a) What is the difference between Rule - Based System and an Artificial Neural Network?  
(Or)  
(b) How can Artificial Neural Network be used for unsupervised Clustering?
3. (a) Mention the fundamental steps in Mathematical modelling.  
(Or)  
(b) List various applications of Artificial Neural Networks.
4. (a) Give the design of Hybrid Neural Network model.  
(Or)  
(b) What are Hierarchical Neural networks?
5. (a) Discuss Learning in a neural network.  
(Or)  
(b) Discuss the architecture for Spatiotemporal Neural Networks.

**SECTION – B (3 x 15 = 45)**

**Answer any THREE of the following questions.**

6. Describe Optimization and Self Organization Models.
7. Explain in detail about Back Propagation.
8. Give a detailed note on Machine learning.
9. Explain various Neural Network Methods.
10. Write a note on Knowledge - Based Approaches.

**\*\*\*\*\***