



THE AMERICAN COLLEGE, MADURAI

(An Autonomous Institution Affiliated to Madurai Kamaraj University)
Re-accredited (2nd Cycle) by NAAC with Grade "A", CGPA – 3.46 on a 4-point scale

Backlog Arrear Examination, March 2021

Course : MCA 0413

Course : Soft Computing

Time : 3 Hrs

Max : 75 marks

PART – A

Answer any FIVE of the following:

5 X 15 = 75 marks

1. Describe various operations on Fuzzy set with necessary examples.
2. What do you mean by Fuzzy decision making? Explain any one Fuzzy logic based control system.
- 3a. Describe the features of Soft Computing.

b. Explain the differences between Crisp set and Fuzzy set with suitable example.
4. a) Explain the characteristics of Artificial neural networks. (10)
b) Give notes on the applications of ANN. (5)
5. Write and explain the complete algorithm of Back propagation technique in Artificial Neural Networks.
6. Describe the Network Structure and Normal Operation of Counter propagation networks.
7. Discuss the architecture of ART with necessary theory.