S.No. 16

(For the candidates admitted from 2012-2013 onwards)

M.Sc. DEGREE EXAMINATION, APRIL/MAY 2018.

Third Semester

Computer Science

SOFT COMPUTING

Time : Three hours   Maximum : 75 marks

SECTION A — (5 × 5 = 25 marks)

Answer ALL the questions.

1.   (a)   List out various characteristics of Neural Network.

Or

(b)   Explain about Taxonomy of Neural Network.

2.   (a)   Discuss the architecture of Backpropagation Network.

Or

(b)   Comment on Augmented BP Network.

3. (a) Write about Classical ART Networks.

Or

(b) Briefly explain about Special features of ART1 Models.

4. (a) What is meant by Crisp Sets?

Or

(b) Explain about Predicate Logic.

5. (a) Comment on Fuzzy Neuron.

Or

(b) How to evaluate the earth quake damage Using Backpropagation model?

SECTION B — (5 × 10 = 50 marks)

Answer ALL the questions.

6. (a) Explain Learning Methods of Neural Network.

Or

(b) Describe Rosenblatt's perceptron.

7. (a) Briefly explain about Backpropagation Learning.

Or

(b) How to select various parameters in Backpropagation Network? Justify.

8. (a) Illustrate on ART1 algorithm.

Or

(b) Explain various applications of ART.

9. (a) Discuss about Basic Fuzzy Set Operations with example.

Or

(b) Describe in detail about fuzzy Cruise Controller.

10. (a) Explain about Fuzzy Backpropagation Architecture.

Or

(b) Discuss about Learning in Fuzzy Backpropagation.

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