

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MCA DEGREE EXAMINATION DECEMBER 2018
(Fifth Semester)

Branch - COMPUTER APPLICATIONS

SOFT COMPUTING

Time: Three Hours

Maximum: 75 Marks

SECTION -A (30 Marks)

Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 x 6 = 30)

- 1 a Explain model of an Artificial Neuron.
OR
b What are the different Learning Methods? Explain it.
- 2 a Elucidate architecture of a Backpropagation Network.
OR
b How to select various parameters in BPN?
- 3 a Write short notes on crisp sets.
OR
b Bring out the applications of Fuzzy Systems.
- 4 a Explain the basic concept of Genetic Algorithm.
OR
b Give brief account on Binary Encoding.
- 5 a What are the different types of Bit-wise Operators? Explain it.
OR
b Bring out the applications of Genetic Modelling.

SECTION -B (45 Marks)

Answer any **THREE** questions
ALL questions carry **EQUAL** Marks (3 x 15 = 45)

- 6 Discuss in detail about early Neural Network Architecture.
- 7 Give detailed note on Backpropagation learning.
- 8 Illustrate Fuzzy sets. .
- 9 Describe the process of creating off springs with example.
- 10 Illustrate on the various operations alone in the cross over.

Z-Z-Z

END