14CMP05

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION JUNE 2018
(First Semester)

Branch - **COMPUTER SCIENCE**

SOFT COMPETING

Time : Three Hours   Maximum : 75 Marks

SECTION -A (30 Marks)
Answer ALL questions
ALL questions carry **EQUAL** Marks (5 x 6 ~ 30)

1 a Mention the features of soft computing.
                                OR "
   b List the principles of optimization.

2 a Discuss on the classical search and optimization methods.
                                OR
   b Give the advantages of genetic algorithm.

3 a How to model an artificial Neuron?
                                OR
   b Discuss on the advantages and disadvantages of neural networks.

4 a What is fuzz} logic?
                                OR
   b Mention the properties of fuzzy sets.

5 a I low crisp relation is defined?
                                OR
   b Discuss on fuzzy controllers.

SECTION -B (45 Marks)
Answer any **THREE** questions
ALL questions carry **EQUAL** Marks (3 x15   45)

6   Discuss on the traditional methods of optimization.

7   Explain the usage of the G A operator.

8   Describe the architecture of neural network.

9   Discuss on the operations on fuzzy sets with examples.

10   Explain the. concept of f'uxzification and defuzzification.

X-Z-X   END