

M.C.A. - I (Two Years Programme) (New CBCS Pattern) Semester - II
PSMCAT202 : Paper-II - Soft Computing Techniques

P. Pages : 2

Time : Three Hours



GUG/S/23/13643

Max. Marks : 80

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat & labelled diagram.
 3. Avoid vague answers and write specific answers relevant to the questions.

1. a) Explain Artificial intelligence in detail. **8**
- b) Write down the difference between Breath first search and depth first search technique used. **8**

OR

- c) Explain A0* algorithm. **8**
- d) Describe the types of control strategies. **8**
2. a) What is RBF NN? Explain the feed forward neural network. **8**
- b) Define Neural Networks. Explain its types. **8**

OR

- c) Explain the difference between ANN and human brain. **8**
- d) How do Neural Networks get optimal weights and Bias values. **8**
3. a) What are the types of logic sets? **8**
- b) Write down the difference between crisp relation and fuzzy relations. **8**

OR

- c) What are the applications of fuzzy logic in decision making? **8**
- d) What are the types of fuzzy propositions available? **8**
4. a) What is the use of genetic algorithm in soft computing? **8**
- b) Differentiate genetic algorithm Vs Traditional algorithm. **8**

OR

- c) Explain the working principle of Genetic algorithms. **8**
- d) What are the basic operators of genetic algorithm? Explain the operational 10 m procedure of GA. **8**

5. Attempt all the questions.

- a) What is Knowledge issues? 4
- b) How can Neural Networks be Unsupervised. 4
- c) What is Fuzzy Theorem? 4
- d) Explain about mutation operator. 4
