

Master of Computer Application (MCA-III) Fifth Semester (Old)
5MCA53 - Paper-V Elective-III : Soft Computing Techniques

P. Pages : 1

Time : Three Hours



GUG/W/18/2142

Max. Marks : 80

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

1. Either.
- a) Discuss in detail Soft computing Vs Hard computing. 8
 - b) Explain in detail various applications of soft computing. 8
- OR**
- c) What is uncertainty problem? How to solve it using soft computing? 8
 - d) Explain various types of soft computing. 8
2. Either.
- a) Explain in detail various vector operations. 8
 - b) Discuss in detail about sensory processing. 8
- OR**
- c) Explain in detail about Artificial neural network. 8
 - d) What is Neuron? Explain its structure and function. 8
3. Either.
- a) Discuss in detail the architecture of pervasive computing. 8
 - b) What is RFIDS protocol? Explain in detail. 8
- OR**
- c) Discuss in detail device technology. 8
 - d) Explain in detail sensor networks. 8
4. Either.
- a) Explain in detail the classification of Genetic Algorithm. 8
 - b) Discuss Genetic Algorithm optimization problem. 8
- OR**
- c) Explain the working principle of Genetic Algorithm. 8
 - d) What is meant by Evolutionary computations? Write its applications. 8
5. Attempt all the questions.
- a) Write a short note on soft computing. 4
 - b) Explain brief about synaptic Integration. 4
 - c) Write a short note on pervasive computing. 4
 - d) Explain in brief the concept of Genetic Algorithm. 4
