

Roll No.

67204

MCA 5th Semester (Old)

Examination – December, 2016

SOFT COMPUTING

Paper : MCA-504

Time : Three Hours]

[Maximum Marks : 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in all, selecting *one* question from each Unit. All questions carry equal marks.

UNIT – I

1. (a) What do you mean by Genetic Algorithm ? How is it useful and use ? Explain. 7
- (b) What is Fuzzy Logic ? What are the advantages and disadvantages ? Illustrate. 8
2. (a) What are artificial neural networks ? How are these different from biological networks ? Illustrate their usage. 8

- (b) Differentiate between hard-computing and soft-computing. 7

UNIT – II

3. (a) What is Learning ? How is it relevant in artificial neural networks (ANN) ? Illustrate. 7
- (b) What are neural nets ? What are its applications ? Explain. 8
4. Explain the following :
- (a) Use of Neural Networks in Control Systems. 8
- (b) ANN Models. 7

UNIT – III

5. (a) What is Neuro-Fuzzy Modeling ? How is it useful ? Illustrate through examples. 8
- (b) What are fuzzy-inference systems ? How do these systems function ? Explain. 7
6. Explain the following :
- (a) Fuzzy Clustering. 8
- (b) Fuzzy Reasoning and its relevance. 7

UNIT – IV

7. (a) What is NLP ? How does it work ? What are its benefits and applications ? Explain. 8
- (b) What is image processing ? What are its applications ? Illustrate. 7
8. Explain the following :
- (a) Pattern recognition and its application. 8
- (b) Information Retrieval Systems. 7

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