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## 67244

# M.C.A. 5th Sem. (with new notes) (Current Scheme)

# Examination-December, 2014 Soft Computing

### Paper-MCA-504

Time: 3 hours

Max. Marks: 80

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 the examination.

Note: Question No. 1 is compulsory. Attempt four more questions, selecting one question from each unit.

#### Unit-I

1. Answer the following questions briefly:

 $2 \times 8 = 16$ 

- (a) Define neural nets.
- (b) What is fuzzy set?

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[ Turn Over

- Define fuzzv logic. Write uses of crossover. (d) Explain biological network. (e)
- Role of soft computing in drug design. (f)
- List genetic operators. (g)
- List advantages of ANN. (h)

#### **Unit-II**

- 2. (a) Define soft computing? How is it useful and used? Discuss with examples. 8
  - (b) Discuss advantages of and biological network with neural examples. 8
- 3. Explain the following briefly with suitable examples:
  - (a) Problem solving with genetic algorithm

8

8

(b) Applications of genetic algorithm

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# Unit-III

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### **Unit-IV**

- 8. (a) Define image processing ? How is it useful and used ? Discuss with examples.
  - (b) Explain Information retrieval system with suitable examples. 8
- 9. Explain the following with examples:
  - (a) Natural language processing and its advantages.
  - (b) Role of soft computing in share market analysis.