

Roll No.

67244

**MCA 5th Semester Current Scheme (With
New Notes)**

Examination – November, 2017

SOFT COMPUTING

Paper : MCA-504

Time : Three Hours] [Maximum 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 examination.

Note : Question No. 1 will consists of total 8 parts (Short Answer type) will carry 16 marks. Question Number 2 to 9 from Unit-I to Unit-IV. Question No. 1 **compulsory** and student will require **one** question from each Unit.

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|---|---|
| 1. (a) Explain the concept of Fuzzy Sets. | 2 |
| (b) What is Parameters ? | 2 |
| (c) What is Neural Network ? | 2 |
| (d) Control systems. | 2 |

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UNIT – IV

- (e) Explain Fuzzy Clustering. 2
- (f) What is Neuro Fuzzy Systems ? 2
- (g) What is Robotics ? 2
- (h) What is Information ? 2

UNIT – I

- 2. Differentiate between Fuzzy Sets and Fuzzy Logic Systems. 16
- 3. Explain the concept of Genetic Parameters and Genetic Operators with suitable example. 16

UNIT – II

- 4. Explain Neural Network applications in Control Systems with example. 16
- 5. What is Neural Nets ? Explain the Role of Neural Nets in Artificial Neural Networks. 16

UNIT – III

- 6. What is Fuzzy Systems ? Explain in detail and also write down the applications of Fuzzy Systems. 16
- 7. What is Neuro Fuzzy Systems ? Write down the merits of Neuro Fuzzy System with example. 16

- 8. What is Pattern Recognitions and biological sequence alignment explain with example ? 16
- 9. Explain the concept of natural language processing with suitable example also write down its applications. 16