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Reg. No.:....

Name :

Eighth Semester B.Tech. Degree Examination, November 2015 (2008 Scheme) 08.805 (1): FUZZY SET THEORY AND APPLICATIONS (Elective III) (R)

Time: 3 Hours

Max. Marks: 100

PART-A

Answer all questions:

(10×4=40 Marks)

- 1. Write short note on fuzzification.
- 2. List the properties of classical sets.
- Discuss fuzzy composition techniques.
- 4. Explain how membership assignment is performed using intuition.
- 5. How is a fuzzy relation converted into a crisp relation using lambda-cut process?
- 6. What are the basic logic operations performed over the propositions?
- 7. Differentiate between center of sum and weighted average method.
- 8. How is fuzzy clustering done?
- 9. Explain the application of fuzzy logic systems to image processing.
- 10. What are information retrieval systems? Explain.

PART-B

Answer any one question from each Module:

(3×20=60 Marks)

Module - I

- 11. a) Discuss in detail the operations and properties of fuzzy sets.
 - b) Explain the different methods used for membership value assignment.



- a) Using your own intuition, plot the fuzzy membership function for the age of people very young, young, middle age, old, very old.
 - b) How is rank ordering used to define membership function based on polling concept?

Module - II

- 13. a) What are the different methods of defuzzification process?
 - b) Explain in detail the methods employed for converting fuzzy form to crisp form.

OR

- 14. a) Explain about fuzzy rule based system.
 - b) Differentiate between center of sum and weighted average method.

Module - III

- 15. a) How is fuzzy database different from traditional database?
 - b) List and explain various applications of fuzzy logic controllers.

OR

 Explain the organization of fuzzy neural network. List any one application of fuzzy neural network.