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Exam. Code: 208602 Subject Code: 8394

M.Sc. (Information Technology) Semester-II FUZZY SYSTEMS Paper-MIT-204

Time Allowed—3 Hours]

[Maximum Marks—100

Note: — Attempt and TU/E questions. Each question carries equal marks.

- 1. What do you mean by Fuzzi Scation? Discuss in detail, the different methods used for Membership value assignment.
- 2. Compare the following:
 - (i) Alpha-cuts and Strong Alpha-cuts
 - (ii) Fuzzy Relations and Crisp Relations
 - (iii) Fuzzy Expert Systems and Non-Fuzzy Expert Systems
 - (iv) Classical Equivalence Relation and Fuzzy Equivalence Relation.
- 3. How can one measure the Fuzziness? Discuss different measures in detail.
- 4. What do you mean by Fuzzy Neural Networks? Discuss their characteristics in detail.

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- 5. What do you mean by Fuzzy Genetic Algorithms? Explain the tuning process involved in Fuzzy Genetic Algorithms.
- Explain in detail the methods employed for converting Fuzzy form into Crisp form. Also differentiate between Centroid method and Center of Largest Area method.
- 7. Pricouss the use of Fuzzy Logic in the implementation of Pattern Recognition System.
- 8. Discuss the following:
 - (a) Use (i probability theory in Fuzzy Logic
 - (b) Fuzzy Approximate Reasoning.