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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 any FIVE questions. Each question carries equal marks.

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

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- 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.
- Discuss the use of Fuzzy Logic in the implementation of Patiern Recognition System.
- Discuss the following:
 - Use of probability theory in Fuzzy Logic

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Fuzzy Approximate Reasoning.