**BECO5-IV**

**Seventh Semester B.Tech Computer Science Engineering**

**Examination Aug/Sep-2015**

**Fuzzy Set Theory and Application**

**Time:-3Hours Max. Marks: - 75**

**SECTION-A**

**Answer any five questions. (5\*5)**

1. Define Fuzzy Sets of type-K.
2. What are the properties of Fuzzy Measures?
3. How beliefs are formed in Fuzzy Set?
4. Write a Statement about the dependency problem in Rounded Internal Arithmetic.
5. What is Probability? Give an example to clarify the term.
6. Give a brief definition of Fuzzy Set.
7. Define sugeno λ-measure and k-additive fuzzy measure.

**SECTION-B**

**Answer any two questions. (10\*2)**

1. What do you mean by Fuzzy Operations? Discuss each operation with their Axioms.
2. Enumerate the Fuzzy Random Functions.
3. Give an account of Evidence Theory.

**SECTION-C**

**Answer any two questions. (15\*2)**

1. Describe the features of Analysis and its principles.
2. Describe Fuzzy Number in detail.
3. Elaborate Simple Fuzzy Logic Controllers.