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Total Number of Pages: 01

MCA
MCE512

5th Semester Regular / Back Examination 2017-18

Soft Computing

BRANCH : MCA

Time: 3 Hours

Max marks: 70

Q.CODE : B715

Answer Question No.1 which is compulsory and any five from the rest.

The figures in the right hand margin indicate marks.

- Q1 Answer the following questions : (2x10)**
- a) What is Knowledge-based system?
 - b) Explain fuzziness.
 - c) What is fuzzy resolution?
 - d) What is genetic algorithm?
 - e) Describe connectionist modeling.
 - f) What is Radial basis function?
 - g) Discuss features of Kohen's self organizing network.
 - h) Explain features of ANN.
 - i) What are the genetic algorithm operators?
 - j) Describe neuro-fuzzy systems
- Q2 a) Explain the features of Intelligent Systems. (5)**
b) Discuss fuzziness and fuzzy resolution, fuzzy relations. (5)
- Q3 a) Describe the process of learning and acquisition of knowledge. (5)**
b) Explain the features of Multilayer Perceptron. (5)
- Q4 Discuss the fuzzy logic system fundamentals. (10)**
- Q5 a) Explain Kohen's self organizing network. (5)**
b) Describe Hopfield Network features. (5)
- Q6 a) Explain ANN's industrial and commercial applications. (5)**
b) Describe construction of neuro-fuzzy systems. (5)
- Q7 a) Describe the schema theorem. (5)**
b) Explain the process of integration of genetic algorithm with neural networks. (5)
- Q8 a) What is population based incremental learning? Discuss. (5)**
b) Discuss the ES applications. (5)