18AA1006

M. Tech. EXAMINATION, May 2020

(First Semester)

(C Scheme) (Re-appear Only)

CSE

MTCSE525C

Introduction to Intelligent Systems

Time : 2½ Hours]   [*Maximum Marks : 75*

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note :   Attempt *Four* questions in all. All questions carry equal marks.

1.   (a)   Explain the Radial basis function networks.

     (b)   Explain the concept of Fuzzy System.

2.   (a)   What is a membership function ? Explain with suitable example.

     (b)   List the components of Genetic Algorithms.

3.   (a)   Evaluate the best first search over breadth first search.

     (b)   Explain stochastic annealing search technique.

4.   (a)   Compare the hill climbing with best first search.

     (b)   What is a evaluation function ? Explain.

5.   (a)   Describe the inference issues in knowledge representation.

     (b)   Compare the semantic networks and conceptual graph.

6. (a) Describe the formal logic with suitable example.

(b) Compare the various knowledge representation methods.

7. (a) Summarize the concept of evolutionary algorithms.

(b) Explain the induction learning method in detail.

8. (a) Describe the Bayesian reasoning.

(b) Explain the concept of Evidential reasoning.

9. (a) Write characteristics of genetic algorithm.

(b) Differentiate between BFS and DFS.

(c) Explain Dempster-Shafer theory.

(d) What is predicate logic ? Explain.

(e) Draw the diagram of artificial neuron.