

2320

B.E. 6th Semester (I.T.) Examination,

May-2012

INTELLIGENT SYSTEMS

Paper-CSE-304-E

Time allowed : 3 hours] [Maximum marks : 100

Note : Attempt any five questions.

1. (a) Differentiate between blind search techniques and heuristic search techniques by giving suitable examples. 10
- (b) Compare and contrast simple hill climbing and steepest hill climbing. Also write their merits and demerits. 10
2. (a) Explain Min-Max algorithm of game playing by giving an example. 10
- (b) What is the use of MAPCAR function in LISP ? Explain by giving an example. 10
3. (a) Explain the various knowledge representation issues with supporting examples. 10

- (b) What is a frame ? How knowledge is represented using frames ? What are its merits and demerits ? 10
4. (a) State and prove Baye's Theorem. 10
- (b) Explain non-monotonic reasoning with the help of examples. 10
5. (a) Explain partial order planning algorithm by giving suitable example. 10
- (b) Explain learning from examples by giving examples. 10
6. (a) What is genetic algorithms ? How these are used in A.I. ? What are their advantages and disadvantages ? 10
- (b) How natural language is processed ? Explain with the help of examples. 10
7. (a) Explain the architecture of rule based expert system with the help of a diagram. 10

- (b) Explain the various applications of AT in Robotics. 10

8. Write short notes on the following : 20

- (a) Forward and backward chaining
- (b) Discovery by learning
- (c) Problem search space
- (d) Fuzzy reasoning.