



III-B.TECH I SEMESTER NR21
ASSIGNMENT: I
MC3001: Artificial Intelligence

Max Marks: 50

Note: Answer All Questions.

| S.No | | Question | Marks | CO | BL | POs |
|------|----|--|-------|----|----|-------------|
| 1. | a) | What is an agent? Explain in detail about different types of Agents. | 5 | 1 | 3 | 4,3,5, PSO1 |
| | b) | Discuss different types of Environments. | 5 | 1 | 4 | 1,3,4 PSO2 |
| 2. | a) | Discuss probabilistic reasoning in Artificial Intelligence. | 5 | 2 | 4 | 4,3,5, PSO1 |
| | b) | Explain different agent types with their PEAS descriptions. | 5 | 2 | 2 | 3,5, PSO3 |
| 3 | a) | Discuss the Bayesian Belief Networks with an example | 5 | 3 | 4 | 11,5, PSO1 |
| | b) | Describe the issues in Knowledge Representation. Define Inheritance in Semantic Net. | 5 | 3 | 3 | 10,3,6 PSO2 |
| 4. | a) | Briefly discuss about different types of Learning | 5 | 4 | 4 | 6,5, PSO3 |
| | b) | Describe the role of information gain in Decision Tree Learning. | 5 | 4 | 2 | 2,3, PSO1 |
| 5 | a) | What is expert system? Discuss about the characteristics of expert systems. | 5 | 5 | 3 | 1,3,4, PSO1 |
| | b) | Explain the components of the shell in detail. | 5 | 5 | 4 | 1,3,5, PSO1 |