BVM COLLEGE OF MANAGEMENT EDUCATION Question Bank 2014-2015

MCA-4th Semester

Unit 1:

- 1. What is Artificial Intelligence? Explain its Techniques.
- 2. Define LISP. Explain its syntax and numeric functions
- 3. Explain basic list manipulation function with example
- 4. Explain Interaction and recursion in brief
- 5. Explain any two AI Problems and define the algorithms to solve them.
- 6. Explain Property list and Array in LISP.
- 7. Explain Lisp Programming in brief.
- 8. What is basic list manipulation function in LISP?

Unit 2:

- 1. Explain AI Problem with its Solving techniques.
- 2. What is forward and backward chaining in AI
- 3. Explain Depth First and Breadth First Search with example.
- 4. Explain Heuristic search techniques? any two
- 5. What is hill climbing and branch bound techniques
- 6. Explain A* and AO* algorithms in brief
- 7. Define Problem reduction technique in artificial intelligence

Unit 3:

- 1. Explain knowledge representation with example
- 2. Explain skolemization explain in brief
- 3. What is frame systems explain
- 4. Explain semantic networks with example
- 5. Define script in knowledge representation.
- 6. Explain conceptual dependency with example
- 7. Define first order predicate calculus.

Unit 4:

- 1. Explain parsing techniques? Define context free grammar.
- 2. Explain RNT(recursive transitions nets) with example
- 3. Define case and logic grammars with example.
- 4. What is game playing in artificial intelligence? Explain additional refinements.
- 5. Explain minimax search procedure?
- 6. Define planning? explain the components of planning
- 7. What is goal stack planning ?explain
- 8. Explain non linear planning

Unit5:

- 1. Define probability theory with example.
- 2. What is baye's theorem? Explain Bayesian networks
- 3. Explain certainty factor with example.
- 4. Define expert system and explain MYCIN
- 5. Write any five applications of expert systems
- 6. Explain vidwan frame network with example
- 7. Explain the need of MYCIN in today's era