

Code: 9F00405c

MCA IV Semester Regular & Supplementary Examinations, July 2013

ARTIFICIAL INTELLIGENCE

Time: 3 hours

Max Marks: 60

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Define AI. Explain various AI problems.
(b) Explain the use of Heuristic search technique.
- 2 (a) What is local beam? Explain it.
(b) Describe genetic algorithm, with an example.
- 3 (a) Describe optimal decision in games. Explain it.
(b) Explain procedural vs declarative knowledge.
- 4 (a) Explain the unification algorithm.
(b) Explain write an algorithm to implement depth first search and mention its advantages and disadvantages.
- 5 (a) Describe classical planning problem.
(b) Explain partial-order planning.
- 6 (a) Explain mean end analysis.
(b) Explain and construct AI to neural networks.
- 7 (a) Define production system.
(b) What are expert system shells? Describe the role and corporation in expert systems.
- 8 (a) Describe the major problems facing current expert systems.
(b) Explain the expert system architecture and knowledge acquisition in expert system.
