

Code: 9A05605

R9

B.Tech III Year I Semester (R09) Supplementary Examinations, May 2012

ARTIFICIAL INTELLIGENCE

(Computer Science and Systems Engineering)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions

All questions carry equal marks

- 1 (a) What is artificial intelligence?
(b) What are the problems in artificial intelligence?
- 2 (a) Write about the following uninformed search strategies
(i) breadth first search (ii) depth first search.
(b) Write about avoiding repeated states.
- 3 (a) Explain the wumpus world.
(b) Write about the propositional logic.
- 4 (a) Write about syntax and semantics of first order logic.
(b) Explain about models for first order logic.
- 5 (a) Write about ontological engineering.
(b) Explain about categories and objects.
- 6 (a) Write about applying Bayes rule: The simple case.
(b) Explain about using Bayes rule: Combining evidence.
- 7 (a) Explain about a logical formulation of learning.
(b) Write about knowledge in learning.
- 8 (a) Explain about statistical learning methods.
(b) Write about fuzzy logic systems.
