

Code: 9A05605

B.Tech III Year II Semester (R09) Supplementary Examinations May/June 2017

ARTIFICIAL INTELLIGENCE
(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) What properties an AI technique ought to process? Explain.
(b) Discuss production system characteristics.
- 2 (a) Discuss forward checking.
(b) Write about degree heuristics.
(c) Explain stochastic hill climbing.
- 3 (a) Give the PEAS description of the wumpus world.
(b) Explain a simple resolution algorithm for propositional logic.
- 4 Explain knowledge engineering in first order logic in detail.
- 5 Write short notes on the following:
(a) Non-monotonic logic.
(b) Clark completion.
(c) Clark normal form.
- 6 Explain prior or unconditional probability with examples.
- 7 (a) What are the drawbacks of version-space approach?
(b) Explain the difference between generalization and specialization.
- 8 Write short notes on the following:
(a) Sugeno style of fuzzy inference processing.
(b) Mamdani inference method.
