

Code: 9A05605

B.Tech III Year I Semester (R09) Supplementary Examinations June 2017

ARTIFICIAL INTELLIGENCE

(Computer Science and Systems Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Is English comprehension an artificial intelligence problem? Explain with an example.
(b) Briefly explain problem characteristics.
- 2 (a) Hill climbing gets stuck for some reasons. Discuss them.
(b) Explain intelligent backtracking with an example.
- 3 (a) Explain the role of knowledge based for logical agents.
(b) Discuss the semantics of propositional logic.
- 4 (a) Describe the symbols and interpretations in first order logic.
(b) Explain complex sentence representation in first order logic.
- 5 (a) What are the different relations involved in the event calculus?
(b) Explain in brief about the generalized events.
- 6 Explain joint probability distribution with examples.
- 7 (a) Explain version space algorithm and write the drawbacks.
(b) Explain the difference between explanation based learning and relevance based learning.
- 8 Explain the following:
 - (a) Fuzzy regions.
 - (b) Fuzzy profiles.
 - (c) Fuzzy rules.
