Code No.: 9A05605/R09

III B.Tech. II Semester Regular and Supplementary Examinations

Set-1

April/May - 2013

ARTIFICIAL INTELLIGENCE

(Computer Science and Engineering)

Time: 3 Hours   Max. Marks: 70

*Answer any **FIVE** Questions*

*All Questions carry **Equal** Marks*

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1. What is an AI technique? Discuss the problem of an AI technique with help of examples.

2. (a) Define the terms: State space, search tree, search node, branching factor.

   (b) Explain why problem formulation must follow goal formulation.

3. (a) Explain Davis-Putnam algorithm for backtracking.

   (b) Discuss completeness of resolution in detail.

4. Briefly illustrate the use of first order logic for simple representations.

5. Explain the solution for inferential frame problem.

6. Explain maximal probability using examples.

7. (a) Explain with examples how the background knowledge is useful for faster learning then from a pure inductive program.

   (b) Explain knowledge base inductive learning.

8. Explain sectional view of a fuzzy room cooler.