Code No: 9A05605/R09

III B.Tech. II Semester Regular & Supplementary Examinations **Set-2**

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. (a) What kinds of techniques will be useful for solving AI problems? Explain.

   (b) Discuss the task domains of AI.

2. Explain in detail bidirectional search strategy. Compare it with other uniformed search strategy.

3. (a) Discuss the following heuristics-pure symbol heuristic, unit clause heuristic.

   (b) Make a comparison between data-driven reasoning and goal directed reasoning.

4. (a) Explain universal instantiation and existential instantiation with illustrations.

   (b) Discuss the unification algorithm.

5. (a) What are the different relations involved in the event calculus?

   (b) Explain in brief about the generalized events.

6. Explain probability density function with examples.

7. (a) We never test the same attribute twice along one path in a decision tree. Why not?

   (b) Write short notes on inductive learning.

8. (a) Explain crisp sets with examples.

   (b) Explain sugeno style of fuzzy inference processing.