**Code: 9A05605**

**AS**

B.Tech IV Year II Semester (R09) Supplementary Examinations April 2018
## ARTIFICIAL INTELLIGENCE
(Electronics & Communication Engineering)

Time: 3 hours                                                          Max. Marks: 70

### Answer any FIVE questions
### All questions carry equal marks
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1  (a)  Discuss the criteria for success in AI field.
   (b)  Explain TS problem as AI problem.

2  (a)  Explain learning heuristics from experience.
   (b)  Write and explain the general graph-search algorithm.

3  (a)  Make a comparison between declarative and procedural approaches.
   (b)  List the standard logical equivalences of propositional logic.

4  (a)  Comment on propositional vs first order inference.
   (b)  Explain verification and lifting with illustration.

5       Explain about the system designed for organizing and reasoning with categories.

6       State and prove Bayes' theorem.

7  (a)  Explain current best learning algorithms and write the drawbacks.
   (b)  Explain explanation –based learning.

8       Explain the following:
   (a)  Feed-forward networks.
   (b)  Recurrent networks

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