

Code: 17F00406

MCA IV Semester Regular Examinations May 2019

ARTIFICIAL INTELLIGENCE

(For 2017 admitted batches only)

Time: 3 hours

Max. Marks: 60

Answer all the questions

1 Describe the need of following disciplines that contributed ideas, viewpoints and techniques to AI: (i) Philosophy. (ii) Mathematics. (iii) Neuroscience.

OR

2 Explain in detail with a neat sketch, general learning agent and its components.

3 Explain with relevant example well-defined problem and solution, and also process of formulating problem.

OR

4 Illustrate bidirectional search with a neat diagram and write the comparison between un-informed search strategies.

5 Describe organization of objects categories, sub-categories, taxonomy with relevant examples.

OR

6 (a) Write a note on event calculus and discrete events.

(b) Explain circumscription and default logic.

7 Explain linear classifiers with a hard threshold.

OR

8 Discuss in detail support vector machine with necessary diagram and write its properties.

9 Discuss statistical learning using Bayesian and maximum posteriori.

OR

10 Explain in detail learning Bayes net structure with hidden variable.
