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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY: PUTTUR
(AUTONOMOUS)
MCA III Year I Semester Regular Examinations Feb-2021
ARTIFICIAL INTELLIGENCE

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 a Explain Breadth First Search. 6M
 b Explain Depth First Search. 6M

OR

- 2 a Define Artificial Intelligence. Explain AI in brief. 6M
 b Explain in detail about Heuristic Functions. 6M

UNIT-II

- 3 a Explain Cryptarithmic problem. 6M
 b Explain Adversarial Search. 6M

OR

- 4 a Determine First-Order Logic in detail. 6M
 b Write short notes on Evaluation functions. 6M

UNIT-III

- 5 a Explain language of planning problems. 6M
 b Explain about Partial order planning. 6M

OR

- 6 Summarize the following concepts with examples a) Ensemble learning 12M
 b) Cumulative learning process c) Relevant based learning.

UNIT-IV

- 7 a Write short notes on Procedural Paradigms. 8M
 b Explain Expert System with its characteristics. 4M

OR

- 8 Summarize the following concepts with examples a) Inductive learning 12M
 b) Nonprocedural Paradigms.

UNIT-V

- 9 a Explain the expert system life cycle. 6M
 b Discuss detailed life cycle model. 6M

OR

- 10 a Discuss about planning with state-space search. 6M
 b What are the major errors in expert system development stage? 6M

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