MCA DEGREE EXAMINATIONS, DECEMBER 2023

Third Semester

Master of Computer Application

Elective - MCA303ET1 - ARTIFICIAL INTELLIGENCE

2020 Admission Onwards

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Time: 3 Hours   Maximum: 75 Marks

Part A

*Answer any **ten** questions*

*Each question carries **3** marks*

1.   Brief: Turing Test

2.   State different types of AI techniques to solve AI problems

3.   Compare the space complexities of different searching techniques

4.   Write the syntax of Propositional and Predicate logic

5.   Brief on closed world assumption

6.   Name different knowledge representation schemes

7.   Discuss on structured knowledge

8.   What is knowledge Acquisition?

9.   What are perceptrons?

10.   How to adjust weights in neural networks?

11.   What is Linguistics?

12.   Compare Top-down and Bottom-up parsers

(10×3=30 marks)

*Answer **all** questions*

*Each question carries **9** marks*

13. a) Explain history of AI

    OR

    b) Discuss about the foundations of AI?

14. a) Explain the working of General Problem Solver (GPS)

    OR

    b) Explain any one of the searching problems

15. a) What is monotonic reasoning?

    OR

    b) Discuss Resolution principle in detail.

16. a) What are the steps for acquiring knowledge?

    OR

    b) Compare the different types of learning?

17. a) Explain the connection between robotics and related areas?

    OR

    b) Explain the role of AI in factory automation?

(5×9=45 marks)