



25804042

QP CODE: 25804042

Reg No :

Name :

MCA DEGREE EXAMINATION, OCTOBER 2025

Third Semester

MASTER OF COMPUTER APPLICATION

ELECTIVE - MCA303ET1 - ARTIFICIAL INTELLIGENCE

2020 ADMISSION ONWARDS

F2CDF032

Time: 3 Hours

Maximum: 75 Marks

Part A

*Answer any **ten** questions*

*Each question carries **3** marks*

1. Define: AI.
2. State different problem characteristics.
3. Brief on Inference rules.
4. What are measures of matching.
5. Discuss Inference rules.
6. Brief on WFFS.
7. State different Performance measures of learning models.
8. What are the different ways to acquire knowledge?
9. State different Performance measures of learning models.
10. What are activation functions?
11. What is deterministic network?
12. What is a non-production system?

(10×3=30 marks)

Part B

*Answer **all** questions*

*Each question carries **9** marks*

13. a) Explain thinking humanly and acting humanly concepts in AI.

OR





- b) Discuss how to think Humanly and rationally.
14. a) Explain Breadth First search technique with an example.
OR
b) Explain Hill climbing technique with an example.
15. a) Explain truth maintenance system.
OR
b) What are the syntax and semantics for FOPI?
16. a) What are the different types of learning?
OR
b) How the genetic algorithms work?
17. a) Explain the role of AI in factory automation, Computer Aided manufacturing.
OR
b) Discuss about the connection of AI and related areas.

(5×9=45 marks)

