

JAMIA HAMDARD
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
SCHOOL OF ENGINEERING SCIENCE & TECHNOLOGY

Artificial Intelligence – MCA PE111

M.C.A 2nd semester 2023

New Delhi-110062

Duration: 2.5 hours.

Max. Marks : 60

Section A (5*4 =20)

Attempt all Questions

Q. No.	Questions	Marks	CO	BL
Q1.	Discuss Learning from experience in Artificial Intelligence, Explain with the help of Tic Tac Toe learning System.	5	CO1	BL5
Q2.	Discuss the following artificial Intelligence Programming language: Python Rust Scala R	5	CO2	BL4
Q3.	The Problems given to the MCA II semester class are - Syllabus Completion of MCA - Preparation for campus selection Use problem reduction technique to solve above problems.	5	CO2	BL3
Q4.	Differentiate Between FUZZY SETS and CRISP SETs. Elaborate with the help of examples.	5	CO2	BL4

Section B (10*4=40)

Attempt any 4 questions

Q1.	Design fuzzy logic system architecture from large negative to large positive. Discuss the relevance of membership function in it.	10	CO1	BL5,6
Q2.	Explain with the help of flow diagram, How knowledge can be represented using frames.	10	CO2	BL6
Q3.	Discuss step by step how ignorance is removed in Dempster Shafer Theory. Which theory is better in your opinion Bayesian Belief Network Dempster Shafer Theory	10	CO3	BL1,2
Q 4.	Explain with the help of example Exhaustive search State Space problem	10	CO4	BL4
Q5.	Discuss the framework for an expert system and explain how Information is sent from knowledge expert system to non-expert user.	10	CO3	BL4,5
Q 6.	What do you understand by Regression in Machine Learning? Differentiate between Linear Regression and logistic Regression	10	CO3	BL 2,3