Integrated Academy of Management & Technology
Class-Test-I, December 2023
MCA- III Semester, Batch- (2022-24)
Subject AI with python (KCA301)

Time: 1 Hr.   **Max. Marks: 15**

The question paper contains three Sections. All Sections are compulsory.

Section –A

Very Short Answer question: Attempt all in this section   (5x1)

Q1. State any two foundation areas of artificial intelligence.   CO1

Q2. What is heuristic search?   CO1

Q3. If a Problem-solving search program were to be written to solve water jug problem.   CO2

Q4. How to understand Natural Language?   CO2

Q5. Is the minimax procedure a depth-first or breath-first search procedure? CO3

Section –B

Short Answer question: Attempt any Two   (2x2.5)

Q1. Give an example of a problem for which breadth-first search would work better than depth-first search and explanation.   CO1

Q2. How would you classify and represent the various type of triangles?   CO2

Q3. Why does the search in game-playing programs always proceed forward from the current position rather than backward from a goal state?   CO3

Section - C

Long Answer Question: Attempt any one   (1x5)

Q1. What is the diffidence between informed search and uninformed search? CO1

Q2. Construct partitioned semantic net representation for the following and Explain

    (a) Every batter hit a ball.

    (b) All the batters like the pitcher.   CO2

Q3. Implement the alpha-beta search procedure. Use it to play a simple game such as tic-tac-toe.   CO1