MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)
MCA III Year I Semester (R18) Supplementary Examinations – August 2022
Artificial Intelligence

Time: 3Hrs   Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.
In Q.no 1 to 5 answer either A or B only

Q.No	Question	Marks	CO	BL
Q.1(A)	How problem formulation is performed in artificial intelligence? Illustrate with example?	12M	1	2
	OR			
Q.1(B)	Demonstrate foundation of artificial intelligence in detail?	12M	1	2
Q.2(A)	What is meant by alpha-beta pruning? Explain?	12M	2	2
	OR			
Q.2(B)	Illustrate minimax procedure with sketch?	12M	2	2
Q.3(A)	State and prove first order inference rule.	12M	3	2
	OR			
Q.3(B)	What is uncertainty domain? How knowledge is represented in uncertainty domain? Elaborate?	12M	3	2
Q.4(A)	How forward chaining and backward chaining is used in expert system? Describe?	12M	4	2
	OR			
Q.4(B)	What is dynamic Bayesian network? Describe in detail?	12M	4	2
Q.5(A)	List any ten ethical principles of artificial intelligence.	12M	5	2
	OR			
Q.5(B)	How current system of autonomous overcomes with earlier system of autonomous in artificial intelligence? Portray?	12M	5	2

*** END ***