

B.E./B.Tech. Examination Nov-Dec. 2022**Artificial Intelligence 150515**

Time: 2 Hours

Maximum marks: 50

Minimum Passing marks:

Note:		1. Answer all five questions. All questions carry equal marks. 2. In each question part a, b are compulsory c and part d has internal choice. Out of which part a and b carry 2 marks, part c and d carry 5 marks. 3. All parts of each question are to be attempted at one place. 4. Assume suitable value for missing data, if any			
Question No.			Marks	Level	Course Outcome Mapped
Unit-1					
1.	(a)	Describe need of Artificial Intelligence?	2	L1	CO1
	(b)	Write the requirements of Good control strategy.	2	L1	CO1
	(c)	Describe the water jug problem with their production rule.	6	L2	CO2
OR					
	(d)	Explain the following Artificial Intelligence Techniques: 1. Machine Learning 2. Computer Vision & Robotic	6	L1	CO1,5
Unit-2					
2	(a)	Explain the concept of Agent in AI	2	L1	CO1,3
	(b)	Differentiate Breadth First Search and Depth First Search techniques.	2	L1	CO1,3
	(c)	Describe the Plateau, Ridge, and Local minima with respect to the hill climbing problems.	6	L2	CO3
OR					
	(d)	Write an algorithm for A* search?	6	L2	CO3
Unit-3					
3	(a)	Discuss the concept of Procedural knowledge.	2	L1	CO1,4
	(b)	Describe the knowledge representation techniques in AI (only two).	2	L1	CO4
	(c)	Construct the predicate logic for the following: a. All Pompeian's were Roman. b. Everyone is loyal to someone. c. Caesar was a ruler	6	L2	CO4
OR					
	(d)	Define Semantic network. Write the important components of scripts.	6	L1	CO4,1
Unit-4					
4	(a)	Differentiate the various types of learning.	2	L1	CO1,5
	(b)	Explain basic operation of Fuzzy logic. With example.	2	L1	CO1,5