BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI

END SEMESTER EXAMINATION

CLASS	: MCA	SEMESTER :II
BRANC	CH: MCA	SESSION :SP/22
SUBJECT: CA435 MODERN ARTIFICIAL INTELLIGENCE		
TIME:	2:00hrs	FULL MARKS: 50
INSTRUCTIONS:		
 The question paper contains 5theory questions with options, each of 10 marks and total of 50 marks Attempt all questions. The missing data, if any, may be assumed suitably. Before attempting the question paper, be sure that you have got the correct question paper. 		
Q.1	What is Artificial Intelligence? Evaluate the proposed AI solution of Tic-Tac problem.	-Toe [10]
or	Define Agents. Compare the following types of agents: a)Goal Based Agent Based Agents and c)Learning Agents.	s, b)Utility
Q.2	What do you understand by uninformed search? Discuss and compare breas search and depth-first search considering suitable example.	adth-first [10]
or	What is heuristic search? Explain Hill-climbing search method. What are the encountered in Hill Climbing search.	e Problems
Q.3	What are the main approaches to knowledge representation? Differentiate to forward reasoning and backward reasoning.	between [10]
or	Explain Resolution in predicate logic. Translate the following statements to logic: 1."All lions are fierce." 2. "Some lions do not drink coffee." 3. "Some fi creatures do not drink coffee".	
Q.4	Explain Bayesian networks with the help of a suitable example. Explain De Shafer theory	mpster- [10]
or	Discuss about the different forms of Learning. Explain the difference betwee Inductive learning and explanation-based learning	en
Q.5	What is Natural Language Processing? What are its components? Enlist the limitations of Natural Language Processing.	e [10]
or	What are Robots? Explain the various components of a robot. Discuss the phardware used in robots.	perceiving
/* 6 th May 2022*/		

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