GYANMANJARI INNOVATIVE UNIVERSITY

GYANMANJARI INSTITUTE OF TECHNOLOGY B.Tech.-Mid Semester Examination (MSE)- S2025

Enro	llmen	t No.:	
Subject Code: BETCE15314 Date: 10/09/20			
Subject Name: Artificial Intelligence Semester: 5th			
Time: 02:30 to 04:30 PM Total Marks: 6			
Inst	ructio	ons:	
	1. Q	uestion No. 1 is compulsory.	
	2. M	ake suitable assumptions wherever necessary.	
		igures to the right indicate full marks.	
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τ τ			Marks
Q.1	(a)	Name 3 sub-areas of AI with real-world examples.	05
	(b)	Explain what is problem solving and why is it necessary	05
	(c)	Differentiate BFS and DFS	10
	(0)	Differentiate Dro and Dro	10
Q.2	(a)	What is knowledge representation?	05
	(b)	Define inference engine.	05
	•	OR	
	(b)	Define expert systems.	05
	(c)	Apply constraint satisfaction Problem to Puzzle as follows:	10
		TO+GO=OUT	
	(c)	OR	10
	(0)	Using backward chaining, describe how fever can be diagnosed.	10
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Q.3	(a)	Compare traditional systems vs. expert systems.	05
	(b)	What is Uninformed Search? Types of uninformed search.	05
	(c)	Explain MYCIN Expert System along with its purpose and	10
	٠.	working of it with its advantages and disadvantage.	
Q.3	(a)	Explain Depth First G. 1 exposure two atmeture and	05
4.0	. (~)	Explain Depth First Search with necessary tree structure and traversal steps	00

05

10

List all components of Expert Systems.

Explain Expert Systems with Interference Mechanism.

(b)