DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Regular End Semester Examination – Summer 2022

Course: B. Tech. Branch : Computer Science & Engineering Semester : VI

Subject Code & Name: Artificial Intelligence BTCOE603 (B)

Max Marks: 60 **Date:20/08/2022** **Duration: 3.45 Hr.**

Instructions to the Students:

1. All Questions are Compulsory.
2. Draw neat diagram wherever necessary.
3. Figures to right indicates full marks
4. Assume suitable data wherever necessary and mention it clearly

		(Level/CO)	Marks
Q. 1	**Solve Any Two of the following.**		
A)	What is AI? Explain the goal of AI.	(Synthesis)	**05**
B)	Explain the advantage and disadvantage of AI.	(Remember)	**05**
C)	List the type of Agent and explain any one.	(Understand)	**05**
Q.2	**Solve Any Two of the following.**		
A)	Explain steps to solve problem Using AI.	(Understand)	**05**
B)	Explain A* Graph Search with example.	(Remember)	**05**
C)	Explain Depth First Search.	(Understand)	**05**
Q. 3	**Solve Any Two of the following.**		
A)	What is Constraints Satisfaction Problem explain with example.	(Synthesis)	**05**
B)	List the different types of local consistency and explain any one.	(Remember)	**05**
C)	Write a short note on Intelligent backtracking?	(Remember)	**05**
Q.4	**Solve Any Two of the following.**		
A)	Explain Game tree with example of Tic-Tac-Toe game.	(Remember)	**05**
B)	Write a short not on Non-deterministic games?	(Understand)	**05**
C)	Write a pseudo-code for Alpha-Beta Pruning.	(Understand)	**05**
Q. 5	**Solve Any Two of the following.**		
A)	Explain Knowledge-Based Agents in AI.	(Synthesis)	**05**
B)	Explain The Wumpus World in AI with its Properties.	(Remember)	**05**
C)	What is Propositional Logic explain with example.	(Remember)	**05**
Q. 6	**Solve Any Two of the following.**		
A)	Explain Approximate Inference in Bayesian Networks in AI.	(Synthesis)	**05**
B)	What is Quantifying Uncertainty and explain it use in AI.	(Remember)	**05**
C)	Explain Representing Knowledge in an Uncertain Domain.	(Understand)	**05**

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