## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE- SEMESTER-VII (NEW) EXAMINATION – WINTER 2024

•	Code:3170716 Date:07-12-20	te:07-12-2024	
Subject Name: Artificial Intelligence Time:10:30 AM TO 01:00 PM Total Marks Instructions:			<b>70</b>
	1. 2. 1 3. 1	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Simple and non-programmable scientific calculators are allowed.	
Q.1	(a) (b) (c)		03 04 07
Q.2	(a) (b) (c)		03 04 07
	(c)	State 3 missionaries and 3 cannibals' problem. Give its state space representation.	07
Q.3	(a) (b)	•	03 04
	(c)	Write A* algorithm  OR	07
Q.3	(a) (b) (c)	Explain Nonmonotonic Reasoning.	03 04 07
Q.4	(a) (b) (c)	• • •	03 04 07
Q.4	(a) (b) (c)	Discuss Bay's theorem.	03 04 07
Q.5	(a) (b) (c)		03 04 07
Q.5	(a) (b)	Discuss the concept of "Heuristic" with an example.	03 04

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processing.

(c) Define Natural language processing and explain Discourse and Pragmatic 07