Enroll. No._____

MARWADI UNIVERSITY
MU-FOT
CE-FOT1 (MU)
Semester 7 - Winter

Subject : AI (01CE0702) **Date : 18-Aug-2021**
Total Marks : 30 **Time : 1 Hours 15 Minutes**

Instructions :

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Que.1 Answer the following questions. **[6]**

(A)

(1) What is search space, write in one line?

(2) What is A* algorithm ?

(3) What distance 8 puzzle problem utilizes?

(4) How would explain search in problem solving?

(5) List out areas of AI

(6) Define criteria for success in AI

Que.2

(A) Describe Uniformed cost search with graphic and pseudocode [6]

(B) Write the types of the environments and describe with examples: 1) Accessible vs. inaccessible, 2) Deterministic vs. nondeterministic [6]

OR

(B) Explain brute force with respect finding a solution by taking any example [6]

Que.3

(A) How many types of agents exist? Explain with their diagram and examples [8]

(B) Explain BFS and DFS with example [4]

OR

(A) Critically explain Arogya Setu and characterize the environment according to their properties with respect to AI. [8]

(B) Apply A* algorithm to any example and explain the steps included [4]

---Best of Luck---

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Difficulty Level	Weightage		No of Question	Total Marks	Question List
	Recommended	Actual			
High	20	27.08	3	13	1(A), 2(A), 2(B)
Low	20	29.17	6	14	1(A), 2(B), 3(B)
Medium	60	43.75	4	21	1(A), 3(A), 3(B)

Module Name	Weightage		No of Question	Total Marks	Question List
	Recommended	Actual			
Introduction	20	4.17	2	2	1(A)
Heuristic search	40	64.58	7	31	1(A), 2(A), 2(B), 3(A)
Finding Optimal Path	40	31.25	4	15	1(A), 2(B), 3(B)

Blooms Taxonomy	Weightage		No of Question	Total Marks	Question List
	Recommended	Actual			
Remember / Knowledge	10	2.08	1	1	1(A)
Understand	20	39.58	6	19	1(A), 2(B), 3(B)
Apply	25	29.17	4	14	1(A), 3(A), 3(B)
Analyze	25	29.17	2	14	2(A), 3(A)
Evaluate	10	0.00	0	0	
Higher order Thinking	10	0.00	0	0