Effective from: 18.05.2021



Faculty of Engineering Technology Term-Test 1 Question Paper – B. Tech.

Department : Computer Science and Engineering

Programme : B. Tech. (Computer Science and Engineering)

Semester / Batch : 6th / 2018 Date of Test : 18th May 2021 Course Code : 19CSC312A

Course Title : Artificial Intelligence

Term Test - 1

INSTRUCTIONS TO STUDENTS:

- 1. Answer all questions
- 2. Use only SI units
- 3. Use of non-programmable scientific calculator is permitted
- 4. Use of data handbook permitted wherever applicable
- 5. Missing data may be appropriately assumed
- 6. Notations used have usual meaning
- 7. Mail the scanned answer sheets in PDF format within the stipulated time to subarna.cs.et@msruas.ac.in

Maximum Duration: 1 Hour 15 Mins Maximum Marks: 25

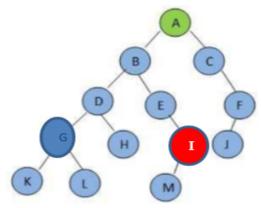
IMPORTANT: You may retain the question paper for future reference

Q.No.	Question		Marks
1	a.	Discuss the advantages and disadvantages of Artificial intelligence.	3
	b.	Explain the PEAS representation of following AI Agents i. Google Map ii. Medical Diagnostics	2
2	a.	Discuss any two types of AI agents	3
	b.	Explain four essential properties of search algorithms	2
3	a. b.	Differentiate between uninformed and informed search Identify the number of intermediate nodes that are visited before reaching the goal node "I" starting from node "A" using BFS(Breadth First Search) and DFS (Depth First Search)	2

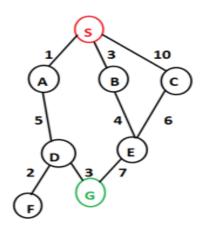
19CSC312A Page 1 of 2

3

2



- a. Draw the state space diagram of Hill Climbing Algorithm showing different regions.b. Discuss different types of Hill Climbing Algorithms.
- 5 Apply the steps of A* Search algorithm to find cost-effective path to reach from start state S to final state G for the following graph



19CSC312A Page **2** of **2**