

Roll No.:

SGT UNIVERSITY

END TERM THEORY EXAMINATION JULY-2022

Faculty/College of Study:	Engineering & Technology	Year/Semester:	6 th Semester
Program:	B. Tech (CE)	Duration:	03:00 Hrs.
Course/Subject:	Artificial Intelligence	Maximum Marks:	60
Course/Subject Code:	13010666	Batch:	2018

Instructions:-

1. Write Your Roll No. on the QuestionPaper.
2. Candidate should ensure that they have been provided correct question paper. Complaint(s) in this regard, if any should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter.
3. All Questions are compulsory. Marks are indicated against eachquestion.
4. Illustrate your answer with diagram wherever required.

SECTION-A

(Very Short Answer Type Questions)

Note: All Questions are compulsory: -

[12X1=12 Marks]

S. No.	Question	Marks Allotted
1	What is intelligent agents?	1
2	Define AI.	1
3	What are the types of AI?	1
4	Define expert system.	1
5	What are the different types of Chaining?	1
6	What is FOL?	1
7	Define birth of Artificial Intelligence?	1
8	Define 1 st and 2 nd AI Winter.	1
9	What are the types of Informed search algorithms?	1
10	What is reinforcement learning?	1
11	What are the types of machine learning?	1
12	Define intelligent agent.	1

SECTION-B

(Short Answer Type Questions)

Note: All Questions are compulsory: -

[4X2=8 Marks]

S. No.	Question	Marks Allotted
13	Explain Searching in AI.	2
14	Explain Logical Connectives.	2
15	What is Adversarial Search?	2
16	State any four applications of AI.	2

SECTION-C

(Descriptive Answer Type Questions)

Note: All Questions are compulsory: -

[4X4=16 Marks]

S. No.	Question	Marks Allotted
17	What is Bayesian networks?	4
18	What is Depth-first Search Algorithm?	4
19	Explain Probabilistic reasoning?	4
20	What is Best-first Search Algorithm?	4

SECTION-D

(Long Answer Type Questions)

Note: All Questions are compulsory: -

[4X6=24 Marks]

S. No.	Question	Marks Allotted
21	Explain FOL inference rules for quantifier with example.	6
22	Explain any one Uninformed Search Algorithm with suitable example.	6
23	Describe BFS and DFS with an example.	6
24	Explain types of AI agents.	6