

Reg. No.:

Name :



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TERM END EXAMINATIONS (TEE) – December 2021- January 2022

|              |                           |                 |                      |
|--------------|---------------------------|-----------------|----------------------|
| Programme    | : B.Tech.- BCE            | Semester        | : Fall 2021-22       |
| Course Name  | : Fundamentals in AI & ML | Course Code     | : CSA2001            |
| Faculty Name | : Mr. E.Silambarasan      | Slot / Class No | : B11+B12+B13 / 0762 |
| Time         | : 1½ hours                | Max. Marks      | : 50                 |

Answer ALL the Questions

Q. No. Question Description Marks

PART - A ( 30 Marks)

1 (a) Explain in details about Future of AI. 10

OR

(b) Discuss about classification of search algorithm with an example tracing. 10

2 (a) Describe about forward and backward chaining and solve the following problem. 10

"As per the law, it is a crime for an American to sell weapons to hostile nations. Country A, an enemy of America, has some missiles, and all the missiles were sold to it by Robert, who is an American citizen." Prove that "**Robert is criminal.**"

OR

(b) List out categories of reasoning and explain each type with example. 10

3 (a) Write prolog program for Factorial of the given number and Fibonacci series. 10

OR

(b) Mention the steps involved in the design of learning system with example Checker game. 10

PART - B (20 Marks)

4 Evaluate the following facts 10

- John likes all kind of food.
- Apple and vegetable are food
- Anything anyone eats and not killed is food.
- Anil eats peanuts and still alive
- Harry eats everything that Anil eats.

and prove by resolution that:

- **John likes peanuts.**

5 Explain concept learning as search and FIND-S algorithm with given dataset. 10

| Example | Sky   | AirTemp | Humidity | Wind   | Water | Forecast | EnjoySport |
|---------|-------|---------|----------|--------|-------|----------|------------|
| 1       | Sunny | Warm    | Normal   | Strong | Warm  | Same     | YES        |
| 2       | Sunny | Warm    | High     | Strong | Warm  | Same     | YES        |
| 3       | Rainy | Cold    | High     | Strong | Warm  | Change   | NO         |
| 4       | Sunny | Warm    | High     | Strong | Warm  | Change   | YES        |

ATTRIBUTES

CONCEPT

