THAKUR COLLEGE OF ENGINEERING & TECHNOLOGY

Jagdu Singh Charitable Trust's (Regd.)

Website : www.tcetmumbai.in

Autonomous College Affiliated to University of Mumbai
Approved by All India Council for Technical Education(AICTE) and Government of Maharashtra(GoM)
Conferred Autonomous Status by University Grants Commission (UGC) for 10 years w.e.f. A.Y 2019-20
Amongst Top 200 Colleges in the Country, Ranked 193rd in NIRF India Ranking 2019 in Engineering College category
• ISO 9001:2015 Certified • Programmes Accredited by National Board of Accreditation (NBA), New Delhi
• Institute Accredited by National Assessment and Accreditation Council (NAAC), Bangalore

Estd. in 2001

In Semester Examination-3, April 2022
Basics of Artificial Intelligence

YEAR/SEM: ST/ SEM IV   **DATE: 19/4/2022**

BRANCH: AIML   **TIME: 10:00 AM to 11:00AM**

                                              MARKS: 20

Subjective Questions

Instructions:

1. All questions are compulsory.
2. Assume suitable data wherever necessary and state the assumptions made.
3. Figures to the right indicate full marks.

Subjective Type Question (10 Marks)

		MARKS
Q2	**Solve any 1 (5 Marks)**	
Q2.a	Discuss all inference rule in First Order Logic	5
	OR	
Q2.b	Apply resolution algorithms to prove that Col. West is a criminal w.r.t following problem definition The law says that it is a crime for an American to sell weapons to hostile nations. The country Nono, an enemy of America, has some missiles, and all of its missiles were sold to it by Colonel West, who is American.	5
Q3	**Solve any 1 (5 Marks)**	
Q3.a	Write all expert system components considering any experts system	5
	OR	
Q3.b	What is Learning in AI? Write the Comparison of different learning types in AI	5