Date: 29/08/2023

Maximum Marks: 20

Timing: 12:00 PM to 1:00 PM



Landy Singh Churstable Trust's I Royal

## THAKUR COLLEGE OF ENGINEERING & TECHNOLOGY

Autonomous Codege Afflicates to Onwerney of Annaous
Approved by All India Council for Technical Education(AICTE) and Government of Maharashtra(GoM)

Conferred Autonomous Status by University Grants Commission (VGC) for 10 years weef. A.Y 2019-20 Amonast Top 200 Colleges in the County, Ranked 193" in NIOF India Agnhing 2019 in Engineering College category

Partitude Resources by National Accounted and Accomplication Council (NOVIC) Sangalon

## IN-SEMESTER EXAMINATION-1

TT (Semester-V)

SUBJECT - Soft Computing

Branch:- AI & DS Div.: ALL

**Duration: 60 Minutes** 

Instructions -

1. All questions are compulsory.

2. Assume suitable data wherever necessary and state the assumptions made.

3. Diagrams / sketches should be given wherever necessary.

4. Use of logarithmic table, drawing instruments and non-programmable calculators is permitted.

5. Figures to the right indicate full marks.

b. Dis	raw an artificial NN iscuss different types of hybrid system.  kplain Single-Neuron Perceptron.	2 2 2	CO 1	R U
c. Exp	xplain Single-Neuron Perceptron.		CO 1	U
-	No. 10 to 10	2		-
d. De		3.5	, CO 2	R
	escribe Multilayer Perceptron.	2	CO 2	R
e. Def	efine membership function and What is Fuzzy inference machine?	2	CO 3	R
f. Exp	plain fuzzy logic with example.	2 *	CO3	R
y. Wha	hat are the Components of Neural Network?	2	CO 2	U
. Des	scribe feed forward neural network with neat Sketch.	5	CO2	. , A
1	OR			
Wha	at is hybrid system in soft computing? Explain the applications of hybrid system	5	COI	U
Wha	nat is naïve based classifier? Also explain logistic regression in neural network.	5	CO 2	U
	OR ·			
Writ	ite a note on cartesian product of relation.	5	CO3	U
7-	Wh	What is hybrid system in soft computing? Explain the applications of hybrid system  What is naïve based classifier? Also explain logistic regression in neural network.	What are the Components of Neural Network?  Describe feed forward neural network with neat Sketch.  OR  What is hybrid system in soft computing? Explain the applications of hybrid system  5  What is naïve based classifier? Also explain logistic regression in neural network.  5  OR	What are the Components of Neural Network?  Describe feed forward neural network with neat Sketch.  OR  What is hybrid system in soft computing? Explain the applications of hybrid system  5 CO 1  What is naïve based classifier? Also explain logistic regression in neural network.  5 CO 2