UPES
UNIVERSITY OF TOMORROW

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2022

Course: Deep Learning
Program: B.Tech CSE-BAO/Bigdata/DevOps
Course Code: CSBD 4004

Semester: VIII
Time: 03 hrs.
Max. Marks: 100

Instructions: All questions are Compulsory.

	SECTION A (5Qx4M=20Marks)		
S. No.		Marks	CO
Q 1	Differentiate Machine and Deep Learning. Support your answer with example.	4	CO1
Q 2	The role of Logistic Regression in Deep Learning is? Justify.	4	CO1
Q 3	Write down the mechanism behind the Search Engine Result Refining.	4	CO2
Q 4	Illustrate LSTM (Long Short-Term Memory) and it's uses.	4	CO3
Q 5	Discuss the strategies used in text summarization.	4	CO4
	SECTION B (4Qx10M= 40 Marks)		
Q 6	State and explain the cases of using DNN over the CNN.	10	CO2
Q 7	Write Short notes on the following: (a) Deep Reinforcement Learning (b) Autoencoder Architecture	10	CO2
Q 8	What are the building blocks of Deep Neural Networks? Explain the use of perceptron.	10	CO1
Q 9	Demonstrate the working of Back propagation algorithm. What are the advantages of it? **OR** How the Naive Bayse classifier works?	10	CO1
	SECTION-C (2Qx20M=40 Marks)		
Q 10	State Natural Language Processing. List any two real-life applications with technical explanation of Natural Language Processing.	20	CO4
Q 11	Fraud detection and News aggregation is one of the challenging task. Discuss the role and contribution of Deep Learning in News Aggregation and Fraud Detection.	20	CO3

	OR Design a Deep Learning Model for "Automatic Machine Translation" and explain all the necessary steps. Also state its application areas.		