Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES **End Semester Examination, May 2023**

Semester: VI

Course: Big Data Search Program: B.Tech CSE spl in Big Data Time : 03 hrs. Course Code: CSBD 3008 Max. Marks: 100

	SECTION A (5Qx4M=20Marks)		
S. No.		Marks	СО
Q 1	List the advantage of Lucene	4	CO2
Q 2	Define Stemming and Lemmatization process	4	CO1
Q 3	State the configuration of Kafka with Elastic Search	4	CO4
Q 4	List challenges of text search.	4	CO1
Q 5	State Split Brain Concept	4	CO3
	SECTION B (4Qx10M= 40 Marks)		
Q 6	Write a SCALA program to generated inverted index of any ebook.	10	CO4
Q 7	Demonstrate the Schema less architecture for Full Text Search	10	CO3
Q 8	Illustrate the architecture of Lucene. Paraphrase the merit and demerits of the same	10	C02
Q 9	Design the Vector Space Model for the following datapoints D1: Tropical Freshwater Aquarium Fish D2: Tropical Fish, Aquarium Care, Tank Setup. D3: Keeping Tropical Fish and Goldfish in Aquariums, and Fish Bowla D4: The Tropical Tank Homepage – Tropical Fish and Aquariums. OR	10	C02

	Design the								
		Process Control Block	Process Schedul ing	CPU utilization	Deaklock in Operating System	Disk Scheduling Algorithm	Critical Section		
	Process	1	1	0	0	0	1		
	Kernel	0	0	0	1	0	0		
	CPU	1	1	1	0	0	0		
	Scheduling	0	1	0	0	1	0		
	Deadlock	0	0	0	1	0	0		
					CCTION-C OM=40 Ma				
Q 10	Illustrate the various algorithms used to perform text search. Explain each algorithm with proper example.							20	CO1
Q 11	Write detail 1. Ress 2. Con Write detail 1. Boo 2. Issu	10+10	CO4						