Name :		VPES							
Enrolment No. :									
UNIVERSITY OF PETROLEUM AND ENERGY ST End Semester Examination, Dec 2024 Program Name : B.Tech CSE (All specializations) Course Name : Big Data Analysis Course Code : CSBD4006P No. of Page(s) : 2 Instructions : Attempt all sections.			S Semester : VII Time : 3 hours Max. Marks : 100						
SECTION-A									
S. No.	Questions		Marks	CO					
Q.1	Explain the components of YA	4	CO1						
Q.2	In the sentence, "Amazon anno explain how Named Entity Re "Amazon" refers to the compa	4	CO2						
Q.3	Explain how does the document lational Database.	4	CO3						
Q.4	Identify the learning techniquea) Face Recognitionb) Image Segmentationc) Weather Forecastd) Social Network Analysis	4	CO4						
Q.5	List the data reading procedur ner.	4	CO1						
SECTION-B									
Q.6 A) B)	Consider a rapidly growing e-commerce platform that handles in creasing volumes of user data and transaction requests. Explain why vertical scalability would be a viable approach if improv- ing the performance of the existing system without adding new nodes is crucial for maintaining smooth operations. State any two applications of horizontal scaling.		$ \begin{array}{c} 10 \\ (6+4) \end{array} $	CO1					
Q.7	You are working with a large adopted a Data Lake for storig and unstructured data. However issues during data management a) The small file problem and b) The shared file problem. Discuss how these challenges is along with potential solutions	e organization that has recently ng massive volumes of structured ver, you encounter two significant t: mpact data storage and retrieval to address them.	10 (5+5)	CO2					

Q.8	Consider t employees perform th	10	CO3						
		Employee ID	Name	Department					
		101	Alice	HR					
		102	Bob	IT					
		103	Charlie	IT					
		104	Diana	HR					
		105	Eve	Finance					
Q.9	Explain th format, con	10	CO4						
	Compare a following p Data Form	10							
SECTION-C									
Q.10	Differentia Write a sh a) Logistic b) Decision c) Naïve B	20 (5*4)	CO1						
Q.11	Explain wi and transfe a) Sentenc b) Tokeniz c) Stop-wo d) Stemmi e) Lemmat	20 (5*4)	CO3						
A) B)	in HDFS a Explain th	ly four factors to o long with a suita ree levels of data	consider fo ble examp locality ii	or replication fac ble of each. n HDFS.	tor of data	CO4			