

Code: 20IT4702E

IV B.Tech - I Semester – Regular Examinations - DECEMBER 2023

**BIG DATA ANALYTICS
(INFORMATION TECHNOLOGY)**

Duration: 3 hours

Max. Marks: 70

Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.

2. All parts of Question must be answered in one place.

BL – Blooms Level

CO – Course Outcome

			BL	CO	Max. Marks
UNIT-I					
1	a)	What are the Characteristics of Big Data?	L1	CO1	7 M
	b)	Explain shared-nothing architecture.	L2	CO1	7 M
OR					
2	a)	List the Advantages of NoSQL.	L1	CO1	7 M
	b)	Discuss Classification of digital data.	L2	CO1	7 M
UNIT-II					
3	a)	Explain the process of Import from CSV, STDIN.	L2	CO1	7 M
	b)	How do you use keyspaces in Cqlsh?	L1	CO1	7 M
OR					
4	a)	Explain CRUD: Create, Read, Update and Delete operations.	L2	CO2	7 M

	b)	Demonstrate the following Alter commands: <ul style="list-style-type: none"> Alter table to change the data type of a column Alter table to delete a column Drop a table Drop a database 	L2	CO2	7 M
UNIT-III					
5	a)	Discuss Processing Data with Hadoop.	L2	CO2	7 M
	b)	Demonstrate Combiner, Partitioner using MAPREDUCE.	L3	CO2	7 M
OR					
6	a)	Illustrate Process of searching in Map Reduce program with an example.	L3	CO2	7 M
	b)	Demonstrate the Process of sorting data in Map Reduce program with an example.	L3	CO2	7 M
UNIT-IV					
7	a)	What is Hive? Discuss History of Hive and Recent releases of Hive.	L1	CO1	7 M
	b)	Illustrate Collection data Types.	L3	CO3	7 M
OR					
8	a)	Discuss Hive Features, Hive Integration and work flow, Hive data Units.	L2	CO3	7 M
	b)	Write a short note on Static Partition, Dynamic partition, Bucketing.	L1	CO3	7 M

UNIT-V

9	a)	Write a short note on Pig.	L1	CO1	7 M
	b)	Explain Execution Modes of Pig.	L2	CO1	7 M
OR					
10	a)	Illustrate Relational Operators - Filter, ForEach, Group, Distinct, Limit, order By, Join, Union, Split, Sample.	L3	CO3	7 M
	b)	Demonstrate Word Count Example using Pig.	L3	CO3	7 M