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BTECH
(SEM V) THEORY EXAMINATION 2024-25
DATA ANALYTICS

TIME: 3 HRS**M.MARKS: 100****Note:** Attempt all Sections. In case of any missing data; choose suitably.**SECTION A****1. Attempt all questions in brief. 2 x 10 = 20**

Q no.	Question	CO	Level
a.	What is the main idea in traditional analytic architecture?	1	K2
b.	List the main characteristics of Big Data.	1	K2
c.	How do you define propositional rule learning?	2	K3
d.	How is genetic algorithm used in solving optimization tasks?	2	K3
e.	Why do you think data stream management is relevant in data mining?	3	K3
f.	What approach would you use to deal with infinite streams?	3	K3
g.	Can you identify the Pair Counting Bottleneck	4	K2
h.	Point out the conclusions drawn from choosing clustroid?	4	K2
i.	What is Hadoop Distributed File System?	5	K3
j.	Discuss the features of Hive	5	K3

SECTION B**2. Attempt any three of the following: 10 x 3 = 30**

a.	How would you compose the statistical concepts in inference?	1	K2
b.	Illustrate how would you extract fuzzy models from data?	2	K3
c.	Assuming a real time stock market situation, bring out the various ideas used in prediction analysis	3	K3
d.	What approach would you use to handle large datasets in main memory?	4	K2
e.	Explain the complexity theory for Map-Reduce? What is reducer size and replication rate	5	K3

SECTION C**3. Attempt any one part of the following: 10 x 1 = 10**

a.	How would you distinguish analysis and reporting tools used in Big-data?	1	K2
b.	Summarize the modern data analytic tools in detail.	1	K2

4. Attempt any one part of the following: 10 x 1 = 10

a.	Summarize the bayesian methods used in data analysis.	2	K3
b.	Why do you think data analytics is becoming more relevant in today's software environment?	2	K3

5. Attempt any one part of the following: 10 x 1 = 10

a.	Discuss the concept of decaying window in detail.	3	K3
b.	What are the phases involved in real time data analytics-deployment to production? Analyze.	3	K3

6. Attempt any one part of the following: 10 x 1 = 10

a.	Define K-Means algorithm and how will you initialize the clusters and pick the value for K?	4	K2
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b.	Discuss the various steps of PROCLUS clustering algorithm and its significances	4	K2
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7. Attempt any one part of the following: 10 x 1 = 10

a.	Describe briefly about Hadoop input and output and write a note on data integrity?	5	K3
b.	Explain NoSQL Databases and its types.	5	K3

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