

**BTECH-MINOR**
(SEM V) THEORY EXAMINATION 2024-25
INTRODUCTION TO 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 are the types of data collection?	1	1
b.	Write the name of data characteristic in data analytics.	1	3
c.	Give the source of Big Data.	2	2
d.	Describe Exploratory Data Analysis.	2	2
e.	Show the name of python libraries in python for EDA.	2	3
f.	Give the name of linear methods for feature extraction.	3	2
g.	List the name of visualization tools in data analytics.	4	1
h.	Briefly explain the responsibilities of data science.	4	2
i.	Write the name of application data science.	1	3
j.	Define ethics for data science.	4	1

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

Q no.	Question	CO	Level
a.	Explain the types of Data Analytics in details and give the name of jobs in data science.	1	2
b.	What is step of data analysis process in EDA? Explain in details.	2	2
c.	Differentiate between feature extraction and feature selection.	3	4
d.	Explain the data visualization design principles.	4	4
e.	Explain the legal and regulatory frameworks for collecting and storing data.	4	2

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

Q no.	Question	CO	Level
a.	Explain the data analytics life cycle with suitable diagram.	1	4
b.	Give the characteristics of Big Data and explain in details.	1	2

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

Q no.	Question	CO	Level
a.	Explain the types of Exploratory Data Analysis in details.	2	4
b.	Illustrate the step of performing Exploratory Data Analysis.	2	3



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

Q no.	Question	CO	Level
a.	Categorize of feature selection methods in data science and explain in detail.	3	4
b.	Why feature selection/extraction is required? Explain with suitable reason.	3	2

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

Q no.	Question	CO	Level
a.	Illustrate the Responsible Data Usage in details.	4	3
b.	Write the challenges of data visualization and explain the data visualization techniques.	4	2

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

Q no.	Question	CO	Level
a.	Explain about evolution of analytics scalability with analytics process	1	2
b.	Explain the principal component analysis for feature extraction.	3	2