



Paper id: 250630

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**BTECH**  
**(SEM VI) THEORY EXAMINATION 2024-25**  
**DATA SCIENCE IN IOT**

**TIME: 3 HRS**

**M.MARKS: 70**

**Note:** Attempt all Sections. In case of any missing data; choose suitably.

**SECTION A**

**1. Attempt all questions in brief.**

**02 x 7 = 14**

Q no.	Question	CO	Level
a.	Explain IoT Analytics?	1	K2
b.	What is Exploratory Data Analytics?	3	K2
c.	Differentiate between Streaming Analytics and Prescriptive Analytics?	2	K4
d.	Differentiate between mean and deviation in data analytics?	5	K2
e.	What is the purpose of data pre-engineering in IoT?	3	K3
f.	Define skewness and mention its significance in data analysis?	3	K2
g.	What is a residual plot? What does it indicate?	4	K3

**SECTION B**

**2. Attempt any three of the following:**

**07 x 3 = 21**

a.	Analyze the role of IoT analytics in creating business value?	2	K4
b.	Explain the various data collection strategies in IoT environments?	3	K3
c.	Describe different visualization techniques used in model evaluation and decision-making?	4	K2
d.	Explain the concept and benefits of linked analytical datasets in IoT systems?	3	K2
e.	Evaluate the benefits of applying analytics in IoT-driven agricultural systems?	5	K6

**SECTION C**

**3. Attempt any one part of the following:**

**07 x 1 = 07**

a.	Describe the architecture and components of an IoT analytics system?	1	K3
b.	Compare and contrast streaming analytics and time series analytics with real-world applications?	2	K4

**4. Attempt any one part of the following:**

**07 x 1 = 07**

a.	Discuss the significance of descriptive statistics in exploratory data analysis?	3	K2
b.	Explain the calculation and interpretation of skewness and kurtosis in a dataset?	3	K2

**5. Attempt any one part of the following:**

**07 x 1 = 07**

a.	Evaluate the effectiveness of box plots, heat maps, and pivot tables in representing IoT data?	5	K6
b.	Explain multiple regression and its application in predictive modeling?	4	K3

**6. Attempt any one part of the following:**

**07 x 1 = 07**

a.	Discuss strategies for organizing and linking IoT datasets for better analytics performance?	3	K3
b.	How do revenue opportunities influence data organization strategies in	4	K4



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	IoT? Discuss with examples?		
<b>7.</b>	<b>Attempt any <i>one</i> part of the following:</b>	<b>07 x 1 = 07</b>	
a.	Discuss the integration of IoT and data science in marketing and financial domains?	5	K2
b.	Explain the application of IoT analytics in the healthcare sector with real-time examples?	5	K3

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