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# B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

## September / October 2023 Supplementary Examinations

**Programme: B.E.**

**Semester: VI**

**Branch: Artificial Intelligence And Machine Learning**

**Duration: 3 hrs.**

**Course Code: 22AM6PEBDA**

**Max Marks: 100**

**Course: Big Data Analysis**

**Date: 19.09.2023**

**Instructions:** 1. Answer any FIVE full questions, choosing one full question from each unit.  
2. Missing data, if any, may be suitably assumed.

### UNIT - I

1	a)	Define Big Data. List and explain its primary characteristics.	05
	b)	Mention some data sources for the analytics process. Discuss challenges associated with analyzing Unstructured Data.	07
	c)	Discuss how Big Data has transformed the healthcare system with Objective and Data-Driven Science.	08

### OR

2	a)	Compare rigid legacy framework with Hadoop framework by emphasizing the concept of flexibility.	07
	b)	Outline components of Hadoop environment.	05
	c)	What is the importance of Predictive Analytics? Discuss some of its leading trends in business today.	08

### UNIT - II

3	a)	Discuss Crowdsourcing Analytics in detail with suitable example.	10
	b)	Design the inter, intra and trans fire wall for the health care system.	10

### UNIT - III

4	a)	Demonstrate the process of converting analytics into consumable. Support your answer with a framework.	10
	b)	Describe the concept of data visualization with suitable example.	10

### UNIT - IV

5	a)	Provide the framework which describes different kinds of analytics needed for Big Data.	08
	b)	Illustrate and explain Global Privacy Principles.	07
	c)	Justify how 90/10 Rule and Critical Thinking can improve business performance.	05

### OR

**Important Note:** Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
Revealing of identification, appeal to evaluator will be treated as malpractice.

6 a) Illustrate the holistic view of big data analytics with help of diagram. **10**  
b) Elucidate the privacy landscape in big data analytics. **10**

**UNIT – V**

7 a) Analyze and explain the three prominent parallel computing options available in big data **10**  
b) Infer the characteristics of Cassandra and Mongo DB. **10**

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SUPPLEMENTARY EXAMS 2023