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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.

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| 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

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| 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 |

SUPPLEMENTARY EXAMS 2023