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

Autonomous Institute Affiliated to VTU

July 2023 Semester End Main 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: 17.07.2023**

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	CO	PO	Marks
1	a)		Explain the various factors involved in credit risk management with help of framework.	CO1	PO1	08
	b)		Inspect in detail different varieties of data big data analytics with an example.	CO1	PO1	06
	c)		Illustrate the key dimensions of big data analytics with a suitable example for each.	CO2	PO2	06
			OR			
2	a)		Database marketers and pioneers of Big Data played a vital role in big data evolution, Justify the statement with the examples.	CO1	PO1	10
	b)		Elaborate the potential of big data to transform the entire health care system using a framework.	CO2	PO2	10
			UNIT - II			
3	a)		Explain Value Chain for Inter-Firewall and Trans-Firewall Analytics.	CO3	PO2	10
	b)		Tabulate the various unit of measures with approximate size and mathematical representation with suitable examples.	CO2	PO2	10
			UNIT - III			
4	a)		Elaborate how the exploratory analysis of data is applied on emerging signal of ocean to identify the signal or noise.	CO3	PO3	12
	b)		Outline the dashboard that provide the insights for hot spots for market. Analyze the same in detail.	CO3	PO2	08
			UNIT - IV			
5	a)		Illustrate the evolution of data science and rise of data scientist using block diagram.	CO2	PO2	10

		b)	Detail the various necessary traits of a data scientists.	*CO1*	*PO1*	**10**
			OR			
	6	a)	Inspect the various skill sets required for a data scientist.	*CO2*	*PO2*	**06**
		b)	Data Scientists are not only computer graduates but they are good at mathematics and science. Justify the statement with examples.	*CO2*	*PO2*	**08**
		c)	Analyze how personalization is considered as one of the data privacy techniques using appropriate representation	*CO2*	*PO2*	**06**
			UNIT - V			
	7	a)	Explain the different parallel computing options available in detail.	*CO2*	*PO1*	**12**
		b)	Analyze and brief the role of Hive and Pig in Hadoop environment in detail.	*CO3*	*PO2*	**08**

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