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

Autonomous Institute Affiliated to VTU

## February / March 2023 Semester End Main Examinations

**Programme: B.E.**

**Branch: Artificial Intelligence and Machine Learning**

**Course Code: 22AM5PEABI**

**Course: AI In Business Intelligence**

**Semester: V**

**Duration: 3 hrs.**

**Max Marks: 100**

**Date: 07.03.2023**

**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) Illustrate BI-Architecture in detail.	8
	b) Differentiate Transaction Processing Vs Analytical Processing.	6
	c) Analyse why descriptive, predictive and perspective based business analytics are necessary.	6

### UNIT - II

2	a) What are the components that help in decision making process?	8
	b) A data is being collected from a mobile app which keeps track of your health. Design an influence diagram for increase of iron levels in blood based on various eating & drinking habits.	6
	c) How do you think intelligence phase helps in decision making process?	6

### OR

3	a) Illustrate the role of design and choice phase in decision making process.	10
	b) In what way mathematical models help and provide a structure for designing a good decision support system?	10

### UNIT - III

4	a) Compare and contrast Hub-and-Spoke Architecture and Centralized Datawarehouse architecture.	10
	b) Provide the implementation issues of data warehousing	10

**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.

## **UNIT - IV**

5	a) Why do you need knowledge management system in an organization?	6
	b) What are the elements of an organizational learning?	6
	c) Illustrate complete knowledge management process	8

## **OR**

6	a) How does cyclic model of knowledge management functions?	10
	b) Provide the pros and cons of individual decision making and group decision making.	6
	c) Mention various software development tools used in Knowledge management system.	4

## **UNIT - V**

7	a) Analyze how content-based filtering engine and collaborative filtering functions for a customer who does online shopping.	6
	b) Identify and justify the type of Cloud service models for the given scenario: I. A deployment model is used for Website hosting, where a web server and operating system stack are put on VM's, where a running server snapshot is made (including in memory image) which can be reconstituted in the event of a disaster Test and Development. II. A deployment model where in the users has control over applications configuration, deployment and management III. A deployment model where complete applications on the cloud is ready for the user to use directly.	6
	c) In what way legal, privacy play a major role in an analytics ecosystem. Provide examples.	8

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