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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

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|---|----|---|----|
| 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. 6
 - 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.
- c) In what way legal, privacy play a major role in an analytics ecosystem. Provide examples. 8
