(FOR THE CANDIDATES ADMITTED

 DURING THE ACADEMIC YEAR 2022 ONLY)

22UBC6E7

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : MAY-2025

B.C.A   **MAXIMUM MARKS: 50**

SEMESTER VI   **TIME : 3 HOURS**

PART - III
DATA MINING AND WARE HOUSING

SECTION - A   **(10 X 1 = 10 MARKS)**

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.   **(K1)**

1. Identify the primary goal of data mining_____.
   a) To predict future trends based on historical data   b) To visualize data
   c) To clean the data   d) To store data efficiently

2. What is the main purpose of data cleaning in preprocessing?
   a) Reducing data dimensions   b) Handling missing and noisy data
   c) Transforming data into visual formats   d) Performing statistical analysis

3. Which technique is used for finding patterns and relationships in large datasets using rules such as "if-then"?
   a) Neural Networks   b) Decision Trees
   c) Association Rules   d) Genetic Algorithms

4. What does KDD stand for in data mining?
   a) Knowledge and Data Development   b) Knowledge Discovery in Databases
   c) Key Data Development   d) Knowledge-Driven Development

5. What is the primary purpose of the OLAP (Online Analytical Processing) tool in a data warehouse?
   a) To store large volumes of data   b) To perform real-time data analytics
   c) To perform multidimensional data analysis d) To process transactional data

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES   **(K2)**

6. Relate one difference in classification and clustering in data mining.
7. What is data cleaning?
8. Define association rules in data mining
9. What does data selection involve in KDD?
10. What is a data warehouse?

SECTION – B   **(5 X 3 = 15 MARKS)**

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Recall the three main types of patterns found in data mining.

(OR)

   b) Summarize the term 'attribute' in data mining and its types**.**

12. a) Identify the importance of correlation analysis in data cleaning?

(OR)

   b) Identify the common challenges in data integration and how can they be resolved?

13. a) What are association rules? and give an example of their application.

(OR)

 b) Illustrate the major challenges and issues in data mining

14. a) Discuss the importance of data cleaning and enrichment in the KDD environment.

(OR)

 b) Describe the role of reporting in the KDD process

15. a) Recall the main components of a data warehouse?

(OR)

 b) List any two differences between a star schema and a snowflake schema.

SECTION - C   (5X 5 = 25 MARKS)
ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K4 & K5)

16. a) Evaluate the applications of Data Mining in any three domain.

(OR)

 b) Illustrate the major challenges and issues in data mining.

17. a) Give an overview of Normalization Data Transformation Strategies in data mining.

(OR)

 b) Give an overview of Data reduction techniques in data mining.

18. a) Sketch and define the data mining as a step in the process of Knowledge discovery.

(OR)

 b) Justify the key feature in OLAP application tools.

19. a) Compare and contrast data selection and data transformation in the KDD process.

(OR)

 b) What are the 10 Golden Rules of KDD, and how do they contribute to ethical data mining practices?

20. a) Compare OLTP and OLAP System.

(OR)

 b) Interpret the three tier architecture of Data Warehousing.

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