Seat No.

January - February (Winter) Examination - 2023

Subject Name: B.C.A. (CBCS)_88233_88659_Data Warehousing and Data Mining_04.01.2023_02.30 PM to 05.30 PM

Subject Code: 88233

Day and Date: Wednesday, 04-01-2023
Time: 02:30 pm to 03:30 pm

Total Mark s: 80

Instructions.:
      1) Figures to the right indicate full marks
Special Instruction.:
      Que.1 and Que. 6 are compulsory and attempt any three Questions from Que. No.2 to Que. No. 5.

Q.1.   Q. 1. A) Choose the correct options   **[20]**
      10
    1. Which is Characteristics of Data warehouse
    A. Subject-oriented
    B. Non-volatile
    C. Integrated
    D. All of above

    2. ....is defined as the heterogeneous data from multiple sources combined into a common source.
    A. Data extraction
    B. Data cleaning
    C. Data Integration
    D. None of above

    3. KDD stands for ....
    A. Knowledge discovery and data
    B. Knowledge discovery from data
    C. Knowledge did from data
    D. None of above

    4. Identify the type of relationship between fact and dimension table in a star schema.
    A. One to one
    B. Many to many
    C. One to many
    D. Many to one

    5. ....is defined as the process of transforming data into the appropriate required form required by the mining procedure.
    A. Selection
    B. Extraction
    C. Transformation
    D. None of above

6. Which of the following also used as the first step in the knowledge discovery process?
A. Data selection
B. Data cleaning
C. Data transformation
D. Data integration

7. What are the functions of Data Mining?
A. Association and correctional analysis classification
B. Prediction and characterization
C. Cluster analysis and Evolution analysis
D. All of the above

8. Data ....is defined as the process where data relevant to the analysis is decided and retrieved from the data warehouse.
A. Selection
B. Extraction
C. Transformation
D. None of above

9. Why is the snowflake schema applied?
A. Transformation
B. Aggregation
C. Normalization
D. Generalization

10. DSS in data warehouse stands for _____.
A. Decision single system
B. Decision support system
C. Data support system
D. Data storable system

Q. 1 B Write short answers (Any two)
10
1. Discuss data mining tasks.
2. Explain Components of data warehousing.
3. Discuss rule based classification.

Q.2. What is data warehousing? Differentiate between database system and data warehouse. [10]

Q.3. What is data pre-processing? Explain data integration and transformation. [10]

Q.4. Define data mining? Explain KDD process in detail. [10]

Q.5. Explain in detail partitioning methods like K-mean and K-medoids. [10]

Q.6. Write short note on (Any four) [20]

1. Clean and transform data in data warehouse
2. Online analytical processing
3. Functionalities issues in data mining
4. Apriori algorithm
5. 3 tier data warehouse architecture
6. Tree mining