CSc.451-2071

Tribhuvan University
Institute of Science and Technology
2071

Bachelor Level/ Fourth Year/Eight Semester/Science — Full Marks: 60
Computer Science and Information Technology-(CSc.451) — Pass Marks: 24
(Data Warehousing and Data Mining) — Time: 3 hours.

Candidates are required to give their answers on their own words as for practicable.
The figures in the margin indicate full marks.

Group A

Attempt any two questions. (2x10=20)

1. What do you mean by representative object based clustering technique? Explain in details with example.
2. Explain the various data mining task primitives in detail.
3. Explain the architecture of data mining system with schematic diagram.

Group B

Attempt any eight questions. (8x5=40)

4. What are the basic stages of KDD?
5. Differentiate between DBMS and data warehouse.
6. Explain the distributed and virtual data warehouse.
7. Explain the data cube with example.
8. What are the data warehouse back and tools? Explain.
9. Explain the data mining tasks performed on a text database.
10. Define spatial database and its features.
11. Differentiate between OLTP and OLAP
12. Explain the Aprion Algorithm.
13. Write short notes **(<u>any two</u>):**
    a) Stars
    b) HOLAP
    c) Data specification
    d) Mining the World Wide Web (www).

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Group A

Attempt any two questions. (2x10=20)

1. What are the key steps in knowledge discovery in database? Explain.
2. Explain the functionalities and classification of data mining system with example.
3. Explain about the architecture and implementation of data warehouse with example.

Group B

Attempt any eight questions. (8x5=40)

4. What are the stages of knowledge discovery in database (KDD)?
5. List down the functionalities of Meta data.
6. Differentiate between OLAP and OLTP.
7. Explain the multidimensional data model.
8. List down the data mining tools.
9. Write down the two measures of association rule.
10. What is the objective of K-mean algorithm?
11. Explain the application of spatial databases.
12. Explain the methods of mining multimedia database.
13. Write short notes (**any two**):
    a. MOLAP
    b. Data cubes
    c. Snowflakes
    d. Regression