Tribhuvan University Institute of Science and Technology 2069



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

Candidates are required to give their answer in their words as far as practicable. The figures in the margin indicate full marks.

Group A

Attempt any two questions.

 $(10 \times 2 = 20)$

- 1. Explain the architecture of data mining system with block diagram.
- 2. Define clustering. Explain with example of the partitioning and hierarchical methods.
- 3. Explain the architecture and implementation of data warehouse with example.

Group B

Attempt any eight questions. (Question No. 13 is compulsory)

 $(8 \times 5 = 40)$

- 4. What do you mean by knowledge discovery in database (KDD)?
- 5. Explain the application of data warehouse and data mining.
- 6 Differentiate between OLAP and OLTP. 2011
- 7. Explain the data mining techniques.
- 8. Explain the aprion algorithm.
- 9. Explain the K-Mediod algorithm.
- 10. Mention the spatial database and its features.
- 11. What is data cube? Explain with example.
- 12. Explain the data mining languages.
- 13. Write short notes (any two):
 - a) OLAP queries
- b) Snow flakes

c) K-mean

d) Mining text databases

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