Tribhuwan University Institute of Science and Technology

2071

Advanced Database Management System

Full Marks : 60 Pass Marks : 24 Time 3 hours

New Course

Candidates are required to give their answers in their own words as far as practicable The questions are of equal value.

Attempt all questions.

- 1.) Explain the following terms:
 - a.) Data Warehouse
 - b.) Distribution Transparency
 - c.) X Query
 - d.) Distribution transaction
 - e.) Knowledge base
 - f.) Classification and clustering
- 2.) Distinguish multiple inheritance and selective inheritance in OO concepts.
- 3.) Define state of an object. Distinguish between persistent and transient objects.
- 4.) Discuss how time is represented in temporal databases and compare the different time dimensions.
- 5.) What is the difference between structured and unstructured complex object? Differentiate identical versus equal objects with examples.
- 6.) What are the advantages and disadvantages of OODBMS?
- 7.) What are the differences and similarities between objects and literals in the ODMG object model?
- 8.) Describe the main reasons for the potential advantage for distributed database. What additional functions does it have over centralized DBMS?
- 9.) Describe the characteristics of mobile computing environment in detail.
- 10.) Differentiate between XML schema and XML DTD with suitable example.