Tribhuwan University Institute of Science and Technology

2070

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:
 - Extent
 - Temporal database
 - Degree of homogeneity of DBMS
 - X Path
 - Classification and clustering
 - OLAP
- 2.) Draw an ER Diagram for a hospital with a set of patients and set of doctors associated with each patient a log of various tests and examinations conducted.
- 3.) What is the difference between an object and a.... in the object oriented data model (OOBM)?
- 4.) What are the main difference between designing a relational database and an object database?
- 5.) Discuss some applications of active database. How do spatial databases differ from regular database?
- 6.) Write a schema that provides tags for a person's first name, last name, weight, and shoe size. Weight and shoe size tags should have attributes to designate measuring systems.
- 7.) Distinguish between structured and unstructured complex objects.
- 8.) What is data warehouse? List the characteristics of data warehouse.
- 9.) What are the advantages and disadvantages of extending the relational data model by means of ORDBMS?
- 10.) Enumerate the limitations of conventional database compared to multimedia database.