in database?

## Tribhuvan University Institute of Science and Technology 2077

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Bachelor Level / Fourth Year /Seven Semester/Science Computer Science and Information Technology-(CSc.401) (Advanced Database Management System) Full Marks: 60 Pass Marks: 24

Time: 3 hours.

(4+2)

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

## Attempt all questions. (10 x 6 = 60) 1. Discuss query optimization with suitable example. What is the importance of query optimization

- 2. How can you convert an EER design to a relational design? Discuss with suitable example. (6)
- 3. Discuss various type constructors used in object-oriented database. How are they used to create complex objects? (4+2)
- 4. What is complex object? What is the difference between structured and usstructured complex objects? (1+5)
- 5. Define object relational dataase. Discuss object relational features of SQL. (1+5)
- 6. What is active database? Discuss generalized model for active databases. (2+4)
- 7. Discuss how time is represented in temporal databases and compare the different time dimensions. (3+3)
- 8. What is data mining? Discuss different types of knowledge discovered during data mining. (1+5)
- 9. What is data warehouse? How does it differ from a database? (2+4)
- 10. What is mobile database? Discuss mobile computing architecture in detail. (1+5)