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B. Tech. 7th Semester (IT) F. Scheme Examination,

December-2017

ADVANCED DATABASE MANAGEMENT SYSTEM

Paper-CSE-435-F

Time allowed: 3 hours]

[Maximum marks: 100

Note: Question No. 1 is compulsory and attempt four more questions selecting one question from each unit. All questions carry equal marks.

- Write the short note on the following:
 - Heuristics in query execution
 - Schedules and recoverability
 - Deductive database system
 - Indexing techniques
 - Multimedia database

Unit-I

- Explain object oriented data model in detail with suitable example also focus on its different standards.
- Discuss the following:
 - Nested relational model
 - Semantic query optimization

Unit-II

Explain concurrency control in detail. Also discuss different locking techniques.

Discuss client server architecture and internet in detail.
 Also focus on different technology components of client server system.

Unit-III

- 6. What do you mean by heterogeneous and federated database system? Also focus on parallel database.
- Explain deductive database system and deductive object oriented database system in detail with suitable examples.

Unit-IV

- 8. Discuss the following:
 - (a) Digital libraries and their comparison with traditional libraries.
 - (b) Spatial database and their needs.
- Discuss the components and structure of multimedia database and their different applications. Also focus on mobile database.