

52444

**MCA 5th Semester (Regular/Re-Appear)
Examination – December, 2019**

ADVANCED DATABASE MANAGEMENT SYSTEM
Paper : MCA-504 (HC)5123

Time : Three Hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt *five* questions in total selecting *one* question from each Unit. Question Number **1** is *compulsory*. All questions carry equal marks.

1. Write the short note on the followings :

- (a) Nested relational model
- (b) Functional dependency
- (c) Limitation of relational data model
- (d) Object query language
- (e) Commit protocol

- (f) Nested and multilevel transaction
- (g) Spatial database
- (h) Data transformation characteristic

UNIT – I

- 2. Explain EER model and also write down its relationship with OO model.
- 3. Explain 3NF and BCNF with suitable examples.

UNIT – II

- 4. Discuss indexing and query optimization in detail.
- 5. Discuss the followings:
 - (a) Database design for ORDBMS
 - (b) Aggregation and association

UNIT – III

- 6. Focus on distributed database design in detail. Also discuss distributed algorithms for data management.
- 7. Explain transaction work flows and its processing monitors in detail.

UNIT – IV

8. Explain various data mining techniques in detail.
9. (a) What do you mean by Data Warehouse ?
Differentiate between DBMS and data warehouse.
- (b) Explain multidimensional data mode in detail.

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