

OCTOBER 2011

P/ID 17411/RBM

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

All questions carry equal marks.

1. (a) Define DBMS and write the role of DBA.

Or

(b) Have a brief discussion on data abstraction.

2. (a) Write the basic structure of database schema.

Or

(b) Explain in detail about decomposition.

3. (a) Explain about IMS database system.

Or

(b) Explain the data retrieval facility in hierarchical model.

4. (a) Explain about the mapping technology of networks to files.

Or

- (b) Write short notes on DBTG update facility.

5. (a) Explain about the evaluation of expressions.

Or

- (b) Briefly discuss about selection operation in Query Processing System.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

All questions carry equal marks.

6. Discuss in detail about database system structure with neat sketch.
7. Explain about entity relationship model along with extended features.
8. (a) Write the pitfalls in relational database design. (5)
- (b) Explain about the additional operations in relational algebra. (5)

9. What is the need for normalization and explain various normal forms.
 10. Explain the following with example :
 - (a) Data definition language. (3)
 - (b) Data manipulation language. (3)
 - (c) View. (4)
 11. Describe the steps in query processing.
 12. Write short notes on :
 - (a) Storage structure. (5)
 - (b) Check points. (5)
 13. Explain about DBTG CODASYL model and compare it with hierarchial model.
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