

Roll No.

Total Pages : 3

11766/NJ**D-2/2111****DATABASE MANAGEMENT SYSTEM**

Paper-237

Semester-III

Time Allowed : 3 Hours] [Maximum Marks : 30

Note : The candidates are required to attempt **two** questions each from Sections A and B carrying 4 marks each and the entire Section C consisting of 7 short answer type questions carrying 2 marks each.

SECTION—A

1. Explain the three level of architecture of DBMS diagrammatically. 4

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2. What is Data Model? Discuss Hierarchical Data model in detail. 4
3. What is an Attribute? Discuss any three attributes with the help of example. 4
4. Discuss any two DDL statements with the help of example. 4

SECTION—B

5. Define the term Normalization. Discuss the functional dependency with the help of example. 4
6. Draw a state diagram and discuss the various states that a transaction goes through during execution. 4
7. Define the Data Integrity Constraints. Discuss any two Data integrity constraints with the help of example. 4

11766/NJ/471/W/710 2

8. List some problems associated with Database Concurrency. 4

SECTION—C

9. Write short notes on the following : 2×7=14

- (i) What is a Weak Entity Set?
- (ii) List any two responsibilities of DBA.
- (iii) What is Recovery?
- (iv) What do you mean by Data Inconsistency?
- (v) Discuss the advantages of DBMS.
- (vi) What is Database Schema?
- (vii) Define the Entity.