



GUG/W/15/3334

B.Sc. (With Credits)-Regular-Semester 2012 Sem III

**B.Sc.23141 Computer Science - I :**  
**Paper- I (Data Base Management System**  
**& Ms-Access)**

P. Pages : 3

Time : Three Hours

Max. Marks : 50

Notes : 1. All questions are compulsory and carry equal marks.

**1. Either :**

- a) Define database management system. **5**  
Explain various components of DBMS.
- b) Explain three tier architecture of DBMS. **5**

**OR**

- c) What is data abstraction ? Explain the **5**  
levels of data abstraction.
- d) Explain the role of DBA. **5**

**2. Either :**

- a) Explain network model with suitable example. **5**
- b) What is normalization ? Explain first and second normal form. **5**

**OR**

- c) Write a note on functional dependency. **5**
- d) What is relational algebra ? Explain the operations of relational algebra. **5**
  - i) Select
  - ii) Project

**3. Either :**

- a) Discuss the main features of MS-access. **5**
- b) Explain the following terms : **5**
  - i) Tables
  - ii) Forms

**OR**

- c) What are the data types used in MS-Access. **5**
- d) Write a procedure for creating table using design view. **5**

**4. Either :**

- a) Describe the process of adding criteria to a query. **5**
- b) What are labels ? How are they added to the form. **5**

**OR**

- c) Describe the process of creating form using autoform wizard. **5**
- d) Write a procedure to create report and macros. **5**

**5. Attempt all the questions.**

- a) What are the advantages of DBMS. **2½**
- b) Explain the codd's rules in detail. **2½**
- c) What is query ? Explain its type. **2½**
- d) Discuss the filtering using multiple criteria. **2½**

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