8. (a) Define:
(i) Primar Key
(ii) Candidate Key
(iii) Foreign Key
(iv) Allen Key
(b) What is the role of DBA? Write 10 points.
(c) What is the purpose of "Default Value" field property?

9. What is the role of DBA? Write 10 points.

ME - 1111 (700)

BCA (II)/14/15

2015

Time: 3 hours
Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. Answer from both the Groups as directed.

Group - A

(Objective-type Questions)

1. Answer all questions.
2. Choose the correct answer of the following:
   - (a) Duplication of data is known as:
   - (i) Data Redundancy
   - (ii) Data Inconsistency
   - (iii) None of these
   - (iv) None of these

   2x10 = 20
Contd

ME-111

(2)

(i) A field in a table is also known as:
(ii) What are the main building blocks of a database?
(iii) Candidate Key
(iv) Special Key
(v) Primary Key

(ii) The number 487.52 should have a field size of:
(iii) A tuple
(iv) A data type
(v) A record

(i) Small Integer

(i) Lists
(ii) Queries
(iii) Tables

(ii) A field that uniquely identifies records in the table is known as:

(i) Big Integer

(iv) None of these
(v) Count
(iii) Avg
(ii) Min
(iv) Max

(iv) .odb
(v) .xml
(iii) .apd

(iv) Which of the following aggregate function is used for counting tuples or values in a relation?

(iii) Schema
(iv) Meta-data
(v) Tera-data

(v) The logical relationship between two data is called:

(iv) .odb
(v) .xml
(iii) .apd

(Turnover)
2. Write short notes on the following:
   (a) DDL
   (b) DML
   (c) DCL
   (d) DQL

3. What is an ER diagram? Draw an ER diagram for college library by taking your own assumptions.

4. What is SQL? What are the two major categories of SQL commands? Explain in detail.

5. Define:
   (a) Data Model
   (b) Data Integrity
   (c) Data Constraints
   (d) Schema

6. Describe in detail:
   (a) Relational Calculus
   (b) Relational Algebra

7. Write short notes on the following:
   (i) Table
   (ii) View
   (iii) Index

Cont'd

ME-111

Group - B

(Long-answer Type Questions)

(i) A BASE database is made up of all the following components except:
   (a) Tables
   (b) Queries
   (c) Forms
   (d) Formulae Bar

(ii) Null
   (iii) Void
   (iv) Empty
   (v) Hollow

(i) The legal empty value in BASE database is termed as:

15 x 4 = 60