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)

Answer **all** questions.

1. Choose the correct answer of the following :

2×10 = 20

(a) Duplication of data is known as :

   (i) Data Redundancy

   (ii) Data Repentance

   (iii) Data Inconsistency

   (iv) None of these

(Turn over)

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8. (a) Define :

   (i) Primar Key

   (ii) Candidate Key

   (iii) Foreign Key

   (iv) Alien Key

  (b) What is the purpose of "Default Value" field property ?

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

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

(i) Primary Key

(ii) Candidata Key

(iii) Unique Key

(iv) Special Key

(c) What are the main building blocks of a database ?

(i) Lists

(ii) Queries

(iii) Tables

(iv) Reports

(d) A row in a table is also known as :

(i) Record

(ii) A field

(iii) A data-type

(iv) A tuple

(e) The number 487.52 should have a field size of :

(i) Tiny Integer

(ii) Small Integer

(iii) Integer

(iv) Big Integer

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

(i) Tora-data

(ii) Meta-data

(iii) Schema

(iv) None of these

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

(i) Count

(ii) Avg ( )

(iii) Max ( )

(iv) Min ( )

(h) When you save a base table, what file format do you use ?

(i) .adp

(ii) .xml

(iii) .mdb

(iv) .odb

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

   (i) Hollow

   (ii) Empty

   (iii) Void

   (iv) Null

(j) A BASE database is made up of all the following components except :

   (i) Tables

   (ii) Queries

   (iii) Forms

   (iv) Formula-bar

Group – B

(Long-answer Type Questions)

Answer any **four** questions of the following :

                15×4 = 60

2. Write short notes on the following :

   (a) DDL

   (b) DML

   (c) DCL

ME – 11/1   (4)   Contd.

3. What is an E-R diagram ? Draw an E-R 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 by taking one example.

5. Define :

   (a) Data Model

   (b) Data Integrity

   (c) Data Constraints

   (d) Schema

6. Describe in detail :

   (a) Relational Algebra

   (b) Relational Calculus – By taking examples

7. (a) What is trigger ?

   (b) Write short notes on the following :

      (i) Table

      (ii) Index

      (iii) View

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