

BCA-09
December - Examination 2015
BCA Part II Examination
Database Management System
Paper - BCA-09

Time : 3 Hours]

[Max. Marks :- 100

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A

10 x 2 = 20

(Very Short Answer Questions)

Note: Answer all questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 words. Each question carries 2 marks.

- 1) (i) Define Cardinality.
- (ii) List various features of database.
- (iii) What is Schema?
- (iv) Who are End users?
- (v) Name different users in DBMS.
- (vi) How null is different than 0.
- (vii) Give some examples of image formats.

- (viii) Write the syntax of SELECT query.
- (ix) Define Transitive dependency.
- (x) Name any three Transactional Control Commands.

Section - B

4 x 10 = 40

(Short Answer Questions)

Note: Answer any four questions. Each answer should not exceed 200 words. Each question carries 10 marks.

- 2) Compare DISTINCT and ALL keywords when used with SELECT command with suitable example.
- 3) List various symbol used in an E-R Model with suitable example.
- 4) What is Key? How primary key is different from foreign key?
- 5) Compare data definition language with data manipulation language with example.
- 6) Explain characteristics of SQL Server.
- 7) What are views? How are they useful? Explain with example.
- 8) Write short note on Time Stamp - Based Order.
- 9) What is meant by distributed Database? Explain its advantages and applications.

Section - C

2 x 20 = 40

(Long Answer Questions)

Note: Answer any two questions. You have to delimit your each answer maximum upto 500 words. Each question carries 20 marks.

- 10) Explain different type of integrity constraints with example.
- 11) Define Boyce-codd normal form. How does it differ from 3NF? Why it is considered as a stronger form of 3NF?
- 12) Explain serializability with Precedence Graph and Algorithm applies on it.
- 13) Define the following properties of a Database transaction:
 - (i) Atomicity
 - (ii) Consistency
 - (iii) Isolation
 - (iv) Durability
