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(20115)

Roll No.

BCA - V Sem.

18021

BCA Examination, Dec. 2014

Introduction to DBMS

(BCA-501)

(New)

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt **all** the Sections as per instructions.

Section-A

Note: Attempt all the **five** questions. Each question carries **03** marks. $3 \times 5 = 15$

- What do you mean by Database? What are the characteristics of Database approach.
- State the difference between Generalization
 & Specialization.

- Differentiate between Sequential and Random access in files.
- 4. What do you mean by relational algebra? What are the various relational Algebra operators?
- Define 3rd NF and BCNF with example.

Section-B

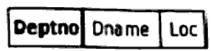
Note: Attempt any two questions out of the following 03 questions. Each question carries 7.5 marks. 7.5×2=15

- What do you mean by Integrity? Explain various Integrity constraints with example.
- か、What are the various database design guidelines? Explain 4th NF and 5 NF.
- Create ER diagram for the following relations:

Emp

Empno E name Sal Joingdate deptno

Dept



Project

Projno Deptno Projname No. of projects

Section-C

Note: Attempt any three questions out of the following 5 questions. Each question carries 15 marks. 3×15=45

- Explain DBMS architecture in detail.
- What is the difference between logical data
 Independence and physical data Independence?

 https://www.ccsustudy.com
- Define Entity, Entity sets, strong entity, weak entity and Draw ER diagram for School management system by taking your own assumptions.

- 12. What do you mean by Normalization? Why do we normalize the database?
- Differentiate between Association and Aggragation with suitable examples.