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(21216)

Roll No.

BCA- V Sem.

18021

B. C. A. Examination, Dec. 2016

Introduction to DBMS

(BCA-501)

(New Course)

Time : Three Hours]

[Maximum Marks : 75

Note: Attempt questions from all Sections as per instructions.

Section-A

(Very Short Answer Questions)

Answer all the five questions. Each question carries 3 marks. Very short answer is required. 3x5=15

1. Explain the various categories of data model.
2. What is the difference between subclass and super-class in object model?
3. What are the anomalies in 1NF?
4. Explain in detail about indexed sequential access file.
5. What are the different relational algebraic constraints?

Section-B

(Short Answer Questions)

Answer any two questions out of the following three questions. Each question carries 7½ marks. Short answer is required. 7½x2=15

6. How are the anomalies of 1NF are rectified? Explain with the help of example.
7. What are integrity rules? Explain with example.
8. What do you understand by mapping? Explain the different types of mapping.

Section-C

(Detailed Answer Questions)

Answer any three questions out of the following five questions. Each question carries 15 marks. Answer is required in detail. 15x3=45

9. What is the difference between file system approach and database approach? Also explain component of database system.
10. How are EER diagrams for specialization, generalization and aggregation drawn?
11. Explain the ACID property of a transaction and the usefulness of each with example.
12. Define normalization. Why do we need to normalize the database? Also differentiate 3NF and BCNF in detail.
13. What do you understand by E-R diagrams? Draw the E-R diagram for college management system with E-R functionalities.