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Roll No.

BCA-V Sem.

18021

B. C. A. Examination, Dec. 2018

Introduction to DBMS

(BCA-501)

(New)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt questions from all Sections as per instructions.

Section-A

(Very Short Answer Questions)

Attempt all the *five* questions. Each question carries 3 marks. Very short answer is required.

3×5=15

1. Define super keys, candidate keys and primary keys.
2. Explain the term – data independence.

3. What is hashing ? Explain.
4. What do you mean by relational database ? Describe.
5. Briefly explain the terms – security and authorization.

Section-B

(Short Answer Questions)

Attempt any *two* questions out of the following three questions. Each question carries 7½ marks.

Short answer is required. 7½×2=15

6. What is a referential integrity constraint ? Why do we need it ? Explain with the help of suitable example.
7. List four significant differences between a file-processing system and a DBMS.
8. Explain third normal form with example.

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Section-C

(Detailed Answer Questions)

Attempt any *three* questions out of the following five questions. Each question carries 15 marks. Answer is required in detail. 15×3=45

- 9. Explain the different locking techniques with example for concurrency control.
- 10. Explain indexed sequential, B tree and B+ tree file organization with example.
- 11. Explain super class, inheritance and generalization with example.
- 12. Write short notes on the following :
 - (i) Strong and weak entity
 - (ii) Different levels of data abstraction
 - (iii) Database recovery techniques.

(4)

- 13. A hospital maintains data about the following entities :
 - (i) PATIENTS (SSNo, LastName, FirstName, HomePhone, Sex, DateofBirth, Age, Street, City, State, Zip)
 - (ii) DOCTORS (SSNo, LastName, FirstName, OfficePhone, Pager, Specialty)
 - (iii) BEDS (RoomNumber, BedNumber, Type, Status, PricePerHour)
 - (iv) ACCOUNTS (DateIn, DateOut, Amount)
 Construct an E-R diagram for the hospital management; specify keys, mapping cardinalities, participation constraints (if necessary).

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