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(20221) Roll No. ....  
BCA-V Sem.

**18021**

**B.C.A. Examination, Dec.-2020**

**INTRODUCTION TO DBMS**

**(BCA-501)**

*Time : Three Hours* *Maximum Marks : 75*

**Note :** Attempt questions from **all** sections as per instructions.

**Section- A**

**(Very Short Answer Questions)**

**Note :** Answer all the **five** questions. Each question carries 3 marks. Very short answer is required.  $3 \times 5 = 15$

1. What are the advantages of file processing system which were removed by DBMS?

2. Give example of a simple, composite attributes of an entity.
3. What do you mean by referential integrity?
4. What do you mean by DML and DDL?
5. What are anomalies in 1NF?

**Section - B**

**Note :** Answer any **Two** questions out of the following **Three** questions. Each question carries  $7\frac{1}{2}$  marks. Short answer is required.  $7\frac{1}{2} \times 2 = 15$

6. What do you mean by a key to relation? Explain the difference between super key, candidate key and primary key.
7. Define functional dependency. What do mean by loss-less decomposition?
8. Define Normal forms. List the definition of first, second and third normal forms.

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## Section - c

**Note :** Answer any **Three** questions out of the following **five** questions. Each carries 15 marks. Answer is required in detail.  $15 \times 3 = 45$

9. What is transactions? Draw a state diagram of transactions showing its states.
10. Explain ACID properties of a transaction with suitable example.
11. What are schedules? What are difference between conflict serializability and view serializability?
12. What are distributed database?
13. Describe the major problem associated with concurrent processing with example.