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# C-156

**B.Com. (Part-III) DUE Ist Year Examination, 2021**

## COMPUTER APPLICATION

Paper - II

**(Database Management System)**

*Time : 1½ Hours ]*

*[ Maximum Marks : 65*

### Section-A

**(Marks : 1½ × 10 = 15)**

*Note :-* Answer all *ten* questions (Answer limit **50** words). Each question carries **1½** marks.

(खण्ड-अ)

**(अंक : 1½ × 10 = 15)**

**नोट :-** सभी दस प्रश्नों के उत्तर दीजिए (उत्तर-सीमा **50** शब्द)। प्रत्येक प्रश्न **1½** अंक का है।

### Section-B

**(Marks : 4 × 5 = 20)**

*Note :-* Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **4** marks.

(खण्ड-ब)

**(अंक : 4 × 5 = 20)**

**नोट :-** सभी पाँच प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न में विकल्प का चयन करें (उत्तर-सीमा **200** शब्द)। प्रत्येक प्रश्न **4** अंक का है।

### Section-C

**(Marks : 10 × 3 = 30)**

*Note :-* Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

(खण्ड-स)

**(अंक : 10 × 3 = 30)**

**नोट :-** पाँच में से किन्हीं तीन प्रश्नों के उत्तर दीजिए (उत्तर-सीमा **500** शब्द)। प्रत्येक प्रश्न **10** अंक का है।

**BI-527**

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**C-156 P.T.O.**

### Section–A

1. Attempt all questions. Answer should not exceed **50** words in each question.
  - (i) Define the purpose of the Database System.
  - (ii) What is the major role of Database Administrator ?
  - (iii) Define the Instances.
  - (iv) Explain the basic concept of Normalization.
  - (v) What do you mean by Database Recovery Management ?
  - (vi) Features of E–R Model.
  - (vii) What is Basic Queries SQL ?
  - (viii) Explain basic data types used in MS Access.
  - (ix) What is Relation and Relationship Sets ?
  - (x) What is Deadlock ?

### Section–B

**Note** :- Attempt all *five* questions. Each question has internal choice (Answer limit **200** words).

2. Explain the Database Architecture with Diagram.

*Or*

What is Generalization ? Difference between Generalization and Specialization.

3. Define the creating and printing reports in MS Access.

*Or*

Explain creating forms in MS Access step by step.

4. Explain the following operation in SQL with Syntax and Table :
  - (i) Union
  - (ii) Intersect
  - (iii) Except
  - (iv) Nested Queries

*Or*

Explain the following commands in SQL :

- (i) Insert
- (ii) Drop
- (iii) Create
- (iv) Truncate

5. Explain the time stamping methods.

*Or*

What is Transaction ? Define ACID properties.

6. Define the master table and transaction table in MS Access.

*Or*

What is Normalization ? Differentiate between 3NF and 4NF.

### **Section–C**

*Note* :- Answer any *three* questions out of five (Answer limit **500** words).

- 7. Define the Deadlock. How to prevent to the Deadlock ?
- 8. What is Data Model ? Explain different types of Data Models with diagram.
- 9. What is the use of E-R Model in Database Design ? Draw an E–R diagram for university courses.
- 10. Explain the Codd's Rules and Optimistic methods.
- 11. What operators and expressions uses in MS Access ?