

Roll No. ....

Total No. of Sections : 3

Total No. of Printed Pages : 5

Code No. : **A.B.B-240**

**Annual Online Examination 2021**

**B.Com. Part II**

**COMPUTER APPLICATION**

**Paper II**

[Relational Database Management System]

Time : Three Hours ]

[ Maximum Marks : 50

*Note : Section 'A' containing 10 very short answer type questions, is compulsory. Section 'B' consists of short answer type questions and Section 'C' consists of long answer type questions. Section 'A' has to be solved first.*

**Section 'A'**

*Answer the following very short answer type questions in one or two sentences. 1×10=10*

1. What is Entity ?
2. What is meant by ER-Model ?
3. What is BCNF ?
4. What is relational Model ?

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5. What is candidate Key ?
6. Explain function dependency.
7. What is Query language ?
8. Define the DDL.
9. Which SQL statements can be used for terminating transactions ?
10. Explain Exception Handling.

**Section 'B'**

*Answer the following short answer type questions  
with word limit 150-200.                      3×5=15*

1. Explain architecture for a database system.

*Or*

Explain DDL and DML with an example.

2. What is Relational Algebra ? Explain the fundamental operations of the relational algebra.

*Or*

Explain security and integrity security specification in SQL.

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5. Explain the following :

- (a) Crating roles and privilege,
- (b) ALTER Command.

*Or*

Explain record data type in PL/SQL with example.

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3. Explain good and bad decompositions with example.

*Or*

Explain 4th and 5th normalization with example.

4. Explain Order by Clause with example.

*Or*

Discuss the Personal and Enterprise Oracle.

5. Explain the block structure of PL/SQL.

*Or*

Write syntax of JOIN and GRANT.

***Section 'C'***

*Answer the following long answer type questions with word limit 300-350. 5×5=25*

1. What is DBMS ? Explain different types of Data Models.

*Or*

Explain generalization and aggregation with example.

2. Explain the following :

- (a) Domain relation,
- (b) Extended relational.

*Or*

Explain view with syntax and example.

3. What is DCL ? Explain types of commands under DCL with syntax and example.

*Or*

Explain the following :

- (a) Special relation operations,
- (b) Super Key and Foreign key.

4. Explain the different types of joins with example.

*Or*

Explain the following :

- (a) Specify integrity constraint,
- (b) SQL subqueries.