

# Question Paper Code : 3023

B.A/B.Sc. (Part-II) Examination, 2017

(New Syllabus)

## COMPUTER APPLICATION

[ Paper -II ]

(DBMS and RDBMS)

Time : Three Hours]

[Maximum Marks : 50

**Note :** Answer **five** questions in all. Question **No.1** is **compulsory**. Attempt **One** question from each of the Units I, II, III and IV.

1. Attempt all questions : [2×10=20]

- (a) What is database and DBMS ?
- (b) What are the database components ?
- (c) What do you mean by file management system? How it is different from DBMS ?
- (d) What is data dictionary ?

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[P.T.O.]

- (e) Define Primary Key, and Candidate Key.
- (f) What do you mean by Normalization ?
- (g) How can you remove a column from a table ?
- (h) How can you update the contents of a table ?
- (i) What do you mean by OLTP ?
- (j) What is data warehousing ?

#### UNIT - I

- 2. (a) Explain the Architecture of the DBMS. [4]
- (b) What do you understand by Database Abstraction ? [3½]
- 3. Define Relational Model, Network Model and Hierarchical Model. [7½]

#### UNIT - II

- 4. Define the following functions : [7½]
- (a) AVG( )
- (b) MIN( )

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- (c) COUNT( )
- (d) SUM( )
- (c) MAX( )

- 5. Explain DDL, DML abd DCL commands in detail. [7½]

#### UNIT - III

- 6. (a) Define the advantages of relational data model. [4]
- (b) Define the Specialization and Generalization. [3½]
- 7. (a) Define the need for Normalization. Explain first normal form and second normal form. [4]
- (b) What is hashing ? Explain in brief. [3½]

#### UNIT - IV

- 8. Write short notes on the following : [7½]
- (a) Data marts.
- (b) ROLAP Vs MOLAP.
- (c) Data mining.

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[P.T.O.]

9. (a) What do you understand by data mining query languages ? [4]
- (b) What is Virtual data warehouse ? [3½]

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