

(i) Printed Pages : 2

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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**Bachelor of Computer Applications 4th Semester
(2042)**

DATABASE MANAGEMENT SYSTEM

Paper : BCA-16-405

Time Allowed : Three Hours]

[Maximum Marks : 65

Note :— Attempt **one** question each from Sections A, B, C and D.
Each question is of 13 marks. Section E is compulsory.

SECTION—A

1. Explain three level architecture of Data base management system. 13
2. (a) Explain the concept of database instance and schema with the help of example. 5
(b) Differentiate between File system and DBMS. 8

SECTION—B

3. Explain network and hierarchical models. 13
4. (a) Explain Codd's rules for an RDBMS. 8
(b) Explain selection and projection operations used in relational algebra. 5

SECTION—C

5. (a) Explain GRANT and REVOKE in SQL with examples. 5
(b) Explain difference between DELETE, DROP and TRUNCATE commands with example. 8
6. (a) Explain any three date functions. 6
(b) What are views ? Why are they significant in DBMS ? 7

SECTION—D

7. (a) Explain block structure of PL/SQL. 7
(b) How exceptions are handled in PL/SQL ? 6
8. What is a database trigger ? What are its various types ? What functions are performed by triggers ? Explain with suitable PL/SQL code. 2+5+3+3

SECTION—E

9. Write a note on :
- (a) Foreign Key 2
(b) ROLL BACK Statement 2
(c) Cursor 3
(d) PL/SQL Data Types 3
(e) Working of GROUP BY clause 3