

E-273

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Seat No.	
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B.C.A. (Part - II) (Semester - IV)
Examination, October - 2016
DBMS USING MS-ACCESS
Sub. Code :63405

Day and Date : Wednesday, 26 - 10 - 2016
Time : 10.30 a.m. to 1.30 p.m.

Total Marks : 80

- Instructions :**
- 1) Solve any 5 questions.
 - 2) Figure to right indicate full marks.

- Q1)** a) Explain the Data dictionary in detail. [8]
b) Compare traditional file management system with DBMS. [8]
- Q2)** a) What is file? Explain different file organizations. [8]
b) Define and explain schema and subschema with example. [8]
- Q3)** What do you mean by normalization? Explain 1NF, 2NF, and 3NF with an example. [16]
- Q4)** a) Explain layered architecture of DBMS. [8]
b) What is relational algebra? List and explain fundamental relational algebra operators. [8]
- Q5)** a) Define E-R Diagram. Draw E-R diagram for bank deposit accounting system. [8]
b) Explain the role and responsibilities of DBA. [8]

P.T.O.

Q6) a) Create following tables with appropriate constraints and write queries given below.

Employee (emp_no, Emo_name, dept_no, proj_no, salary, dependents)

Department (dept_no, dname, dlocation)

Project (proj_no, pname, plocation, duration) [10]

- i) Compute number of employees working in the project which has highest duration.
- ii) Retrieve the department name and project name which are located at same place.
- iii) Display department wise employee list.
- iv) List the name of employee having highest salary.

b) Explain different types of relationships. [6]

Q7) Define DBMS. Explain the DDL, DML and DCL Commands with its syntax & example. [16]

Q8) Write short notes on. (any 4): [16]

- a) Network Model.
- b) Database security.
- c) Functions of DBMS.
- d) Integrity constraints.
- e) Data abstraction.

