

<b>Seat No.</b>	
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**B.C.A. (Faculty of Commerce) (Part -II) (Semester - IV)****Examination, May - 2017****DBMS USING MS-ACCESS****Sub. Code: 63405****Day and Date : Thursday, 04 - 05 - 2017****Total Marks : 80****Time :3.00 p.m. to 6.00 p.m.**

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

- Q1) a) What is DBMS? What are advantages and disadvantages of DBMS?[8]**  
b) Write note on Data Independence with example. [8]
- Q2) Explain different file organizations in DBMS. [16]**
- Q3) a) List and explain various data models used for database design. [8]**  
b) Construct E-R diagram for a hospital with a set of patients and medical doctors. (Associate with each patient has various tests and examinations conducted.) [8]
- Q4) a) Explain candidate key, primary key and foreign key. [8]**  
b) Explain following relational algebra operation. [8]  
i) Natural join operation  
ii) Selection and projection operation.
- Q5) a) Explain following commands with syntax and example. [8]**  
i) Create table  
ii) Desc  
iii) Alter table  
iv) Drop table  
b) List and explain various features of MS-Access. [8]

**P.T.O.**

**Q6) a)** Create following tables and write SQL queries for following. [10]

Student (Enrno, name, courseId, emailId, cellno)

Course(CourseId, course\_nm, duration)

- i) Add a 5 records in tables.
- ii) Find out list of students who have enrolled in “computer” course.
- iii) List name of all courses with their duration.
- iv) List name of all students start with ‘a’.

b) Explain different DML commands with syntax and example. [6]

**Q7)** What is normalization? Explain 1NF, 2NF & 3NF with example. [16]

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

- a) Schema and subschema.
- b) DBA.
- c) SQL operators.
- d) Functions of DBMS.
- e) Data dictionary.

*EEE*