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## TCS-402/TIT-402

**B. Tech. (CS/IT) (Fourth Semester)**  
**Mid Semester EXAMINATION, 2017**  
**DATABASE MANAGEMENT SYSTEM**

*Time : 1:30 Hours ] [ Maximum Marks : 50*

**Note :** (i) This question paper contains two Sections.

(ii) Both Sections are compulsory.

### Section—A

1. State True or False : (1×5=5 Marks)

- (a) "Create table" is a DDL statement.
- (b) Flat file systems have minimum redundancy.
- (c) A Table can have multiple primary keys.
- (d) A record/row can be added anywhere in the table.
- (e) A Diamond in an ER diagram represents a relationship.

2. Attempt any *five* parts : (3×5=15 Marks)

- (a) SQL

[ 2 ]

TCS-402/TIT-402

- (b) Table Schema
- (c) Entity
- (d) Database Instance
- (e) Strong Entity
- (f) Data Independence

**Section—B**

3. Attempt any *two* parts of choice from (a), (b) and (c). (5×2=10 Marks)
- (a) What is DBMS ? Explain its advantages and facilities. Give examples.
  - (b) What are flat file systems ? Explain their drawbacks.
  - (c) Compare different types of DBMS.
4. Attempt any *two* parts of choice from (a), (b) and (c). (5×2=10 Marks)
- (a) Explain the 3-Level architecture of DBMS using proper diagram.
  - (b) What is an ER diagram ? Explain its importance. Draw a sample ER diagram.
  - (c) What are DDL Statements ? Explain using SQL examples.
5. Attempt any *two* parts of choice from (a), (b) and (c). (5×2=10 Marks)
- (a) Define RDBMS. Explain its properties and features.

A-36

[ 3 ]

- (b) What are relational keys ? Explain the using proper examples.
- (c) Explain the various data types available in the SQL software/DBMS you are using in your lab.

TCS-402/TIT-402

A-36

340