



End Term Examinations (April 2019)

School: School of Engineering

Program: BTech CTIS / MACT

Course: Database management system

Course Code: CSC230

Semester: IV

Max Marks: 30

Duration (mins): 60

Note- 1. Figures to the right indicates full marks.

2. Attempt any three questions.

- Q.1 A) Define : (4)
1. Data
 2. DBMS
 3. Record
 4. Relation / Table
- B) Design a table and Schema for Employee and draw the E-R model for employee table. (6)
- Q.2 A) Explain Relational algebra with Two Fundamental operations. (4)
- B) List Different Data types of Oracle database. (2)
- C) List and explain different types of data constraints. (4)
- Q.3 A) Define functional dependency and explain the different types of FD. (5)
- B) Define Normalization. Explain 1.1NF 2. 2NF (5)
- Q.4 A) Explain with example ACID properties. (4)
- B) Explain two phase locking protocol. (6)
- Q.5 A) Explain Database languages. (5)
- B) Explain database system architecture with suitable diagram. (5)

