

Code No: 114CQ**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B.Tech II Year II Semester Examinations, May - 2016****DATABASE MANAGEMENT SYSTEMS****(Common to CSE, IT)****Time: 3 Hours****Max. Marks: 75****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit.

Each question carries 10 marks and may have a, b, c as sub questions.

PART - A**(25 Marks)**

- 1.a) Discuss about DDL. [2]
- b) Write brief notes on altering tables and views. [3]
- c) Describe about outer join. [2]
- d) What is meant by nested queries? [3]
- e) What is second normal form? [2]
- f) Describe the inclusion dependencies. [3]
- g) What is meant by buffer management? [2]
- h) What is meant by remote backup system? [3]
- i) Discuss about primary indexes. [2]
- j) What is meant by linear hashing? [3]

PART - B**(50 Marks)**

2. Explain the relational database architecture. [10]
- OR**
3. State and explain various features of E-R Models. [10]
4. Explain Tuple relational calculus. [10]
- OR**
5. Discuss about domain relational calculus. [10]
6. What is meant by functional dependencies? Discuss about second normal form. [10]
- OR**
7. Explain fourth normal form and BCNF. [10]
8. What is meant by concurrency control? [10]
- OR**
9. Discuss about failure with loss of nonvolatile storage. [10]
10. What is meant by extendable hashing? How it is different from linear hashing? [10]
- OR**
11. What are the indexed data structures? Explain any one of them. [10]