Code No: 114CQ

R13

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]

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