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]

--ooOoo--