R13

Code No: 114CQ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year II Semester Examinations, May - 2019 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)	What is meant by data abstraction?	[2]
b)	Define the terms entity and attributes.	[3]
c)	Explain the selection and projection operations.	[2]
d)	Write brief notes on NULL values.	[3]
e)	Explain first normal form?	[2]
f)	Write short notes on inclusion dependencies. What is meant by atomicity?	[3]
g) h)	What is meant by atomicity? What is meant by recoverability?	[2] [3]
i)	What are the clustered indexes?	[2]
j)	What is meant by linear hashing?	[3]
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	PART - B	(50.35)
	aller	(50 Marks)
2.	Discuss about Querying relational data.	[10]
	OR OR	
3.	Describe the history of database systems.	[10]
4.	Explain the AND, OR and NOT logical connectives with examples.	[10]
	OR	
5.	Discuss about complex integrity constraints in SQL.	[10]
6.	Explain about dependency preserving decomposition.	[10]
0.	OR	[10]
7.	Explain third normal form and fifth normal form.	[10]
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8.	Discuss about time stamp based protocols. OR	[10]
9.	Discuss about remote backup systems.	[10]
10.	Explain about Dynamic index structure.	[10]
10.	OR	[10]
11.	Discuss about static hashing and extendable hashing.	[10]