R18

Code No: 154AM

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year II Semester (Special) Examinations, January/February - 2021 DATABASE MANAGEMENT SYSTEMS

(Common to CSE, IT)

Time: 2 hours		Max. Marks: 75
Answer any five questions		
All questions carry equal marks		
1.	Explain the functions of Database Administrator.	[15]
2.	What is Relational Model? Distinguish between Super key, Candidate ke for a relation with examples.	ey, Primary Key [15]
3.	What is normalization? Explain 2NF, 3NF and BCNF Normal forms with example.	
		[15]
4.	What is serializability? Explain conflict and view is serializability in det	ail. [15]
5.	Describe insertion and deletion operations in B+ tree with example.	[15]
6.a) b)	Explain various levels of data abstraction and data independence. Define generalization, specialization and aggregation? How it is removed. Model?	epresented in E-R [7+8]
7.	Let $R = (ABC)$ and $R = (ABC$	
	tuple relational calculus that is equivalent to each of the following. a) $\prod_{A1}(r1)$ $r1 \cap r2$ c) $r1-r2$	[5+5+5]
8.	Explain various data manipulation and data definition statements in SQL with examples.	
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