SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, EEROZEPUR

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ROL	L NO: Total number of pages:[2]
Tota	number of questions: 06
	B-Tech. CSE/5 th Sem
	Relational Data Base Management System-I
	Subject Code: BTCS-502 (RP) Paper ID: M/ 8 2011-2014 bolds) Max Marks: 60
Tir	me allowed: 3 Hrs Max Marks: 60
Impo	rtant Instructions:
•	All Questions are compulsory. Assume any missing data.
	Section-A (2×10)
Q1)	Answer in brief: (a) What is the use of Primary Key? (b) Define BCNF? (c) What are Views? How it provides Security? (d) Describe GRANT and REVOKE Command? (e) Give example of query of Group By Clause and having Clause? (f) Differentiate between Strong Entity set and Weak Entity Set? (g) Define Hashing and Indexing? Explain Sparse Index? (h) Describe various symbol used in E-R Diagram? (i) Differentiate between Row Trigger and Statement Trigger? (j) Define ACID properties?
	Section-B (8×5)
Q2)	What is an E-R Diagram? Construct a E-R Diagram for a Hospital with a set of Patients and set of Doctors. Associate with each Patient a log of various tests and examination Conducted? (CO1)
	Draw a E-R Diagram for a Bank? Each Bank have multiple branches and each branch can have multiple accounts and loans? List all the entities and Relationships between them? Also list all the constraints. State all the Assumptions made. (CO1)

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Q3)	Explain Hashing and Indexing? Differentiate between Primary and Se Indexes?	condary (CO2)	
		dol	
	Explain entity integrity and referential integrity rules in relational model. (CO2)		
	Show how these are realized in SQL?	(CO2)	
	What is Relational Algebra? Explain its various operations in OR	(CO3)	
Q4)	detail? Explain various aggregate operations used in SQL with examples?	(CO3)	
	a F . I - in trivial and non-trivial fund	ctional	
Q5)	Dependency with example:	(CO4)	
	OR OR	r 3NF?	
	Explain 4NF and 5NF with example? Would you prefer BCNF over Justify your answer?	(CO4)	
	What is Concurrency Control? Explain different types of Locks used in (CO5)		
00	What is Concurrency Control? Explain different types of Locks as	100	
Q6)		(CO5)	
	Concurrency Control?		
	On		
	Protection? Explain various types of Security te	chniques	
	What is Database Protection? Explain various types of Security te	(CO5)	
	used in RDBMS?		
	함께 하는 경기를 가지 않는데 하는데 하는데 하는데 하는데 하는데 하는데 없다.	14 17 - 16 1	
