Paper / Subject Code: 51423 / Database Management System

30/11/2024 IT SEM-III C SCHEME DMS QP CODE: 10067682

 N.B.: (1) Question No 1 is Compulsory. (2) Attempt any three questions out of the remaining five. (3) All questions carry equal marks. (4) Assume suitable data, if required and state it clearly. 1 a Explain different keys in DBMS. b Strong Vs Weak Entity. c Explain the aggregate functions in SQL with examples. d Discuss the role of DBA. 	ks: 80]
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2 a Design an ER diagram for a Bank Database System.	[10]
b What is a deadlock? Explain the causes of deadlocks? Explain the deadlock	k [10]
prevention methods used in DBMS.	
3 a Describe the overall architecture of DBMS with a suitable diagram.	[10]
b What is Normalization? Explain 1NF, 2NF and 3 NF with examples.	[10]
4 a Explain different relational algebra operators with examples.	[10]
b Explain types of integrity constraints with examples.	[10]
5 a Explain the ACID properties of transactions.	[10]
b Explain database programming with JDBC.	[10]
6 Write short note on:	
a Trigger in SQL	[05]
b Log based recovery	[05]
c Conflict Serializability	[05]
d Specialization and Generalization in EER	[05]

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