Tribhuvan University Institute of Science and Technology

2073

Bachelor Level/ First Year/ First Semester/ Science Full Marks: 60		
Comp	uter Science and Information Technology (CSc. 253)Pass Marks: 24	
(Datab	ase Management System)	
	ates are required to give their answers in their own words as for as practicable. ures in the margin indicate full marks.	
Attem	p All Ouestions	
1.	Answer the following questions in short:	(5 x 2)
	 a) Differentiate between Database Manager and database Administrator. b) Relational database c) Data encryption d) Lock base protocols e) Deadlock handling 	
2.	(a) What do you mean by Entity-relationship model? Explain strong and weak entity set.	(6)
	(b) What is composite attributes? Explain.	(4)
3.	(a) Which part of the RDBMS taken care of the data dictionary? Explain.	(4)
	(b) What do you mean by Hierarchical model? Explain.	(6)
4.	(a) Explain the functional dependency and trivial functional dependency with examples.	(5)
	(b) Differentiate between distributed DBMS and client-server DBMS.	(5)
5.	Comparison between INF, 2NF, 3NF and BCNF with example.	(10)
6.	(a) Explain the concurrences control mechanism in detail with example.	(6)
	(b) What are the methods used to prevent the system from dead lock?	(4)