Exam. Code: 0042 Sub. Code: 1009

2054

B.Sc. (Hons.) Bio-Informatics Fourth Semester

BIN-4004: Introduction to Database Management System

	owed: 3 Hours		Max. Marks: 60
NOTE:	Attempt <u>five</u> questions in all, include and selecting two questions from each Unit	ling Question No. 1 wi	hich is compulsory
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QI) F	Attempt all the questions given below:	1.9	
a) What are the components of a Database Man	nagement System?	(2)
	What do you understand about data indepen	dence?	(2)
2) What is a View in SQL? Give its uses.		(2)
0) Give the difference between ER and EER d	agrams.	(2)
) What do you understand by nested queries?	Give an example.	(2)
1	Define Join in SQL? Give its uses.		(2)
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Q2) a b	- manageme	ent System and File processing is it different from the Entire	ng system. (6)
	,	is a different from the Engl	
Q3) a) Discuss entities, attributes and constraints w	ith the help of suitable exam	(6) iples. (6)
ь) What are the components of an ER diagram	n? Explain with the help of e	xamples and diagrams.
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Q4) V	What do you understand by data modeling? W	hat are various components of	of an EER model? How
	to convert EER diagrams into tables?		(12)
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Q5) a	How to create, alter and delete a table? How	ow to insert data into a tabl	le? How to update and
	delete the contents of a table? Explain with	the help of queries in SOL.	(6)
b) Discuss about aggregate functions and neste	d queries with the help of su	itable examples.
			(6)
Q6) a) What are indexes? What is the use of indexe	s? How to use indexes in SQ)L? (6)
b) Discuss about centralized and client server a	rchitecture of databases.	(6)
	Discuss the following with the help of queries:		(12)
	a) Ordering of tuples		
	b) Sub-queries		
	c) Equivalence of queries		
	d) DDL		
	e) Tuple variables		
	f) Distributed Database Systems		