Exam. Code : 105704 Subject Code : 1441

B.Sc. (Information Technology) 4th Semester DATABASE MANAGEMENT SYSTEM Paper—I

Time Allowed—3 Hours [Maximum Marks—75]

1401	te:— Attempt any five questions. All questions carry	requa					
	marks. The students can use only non-program and non-storage type calculator.	mable					
1.	Define Database Management System. What are the						
	advantages of DBMS over traditional file processing						
	system ? Explain.	1.5					
2.	Tabulate the differences between network and hierarchical						
	model.						
3.	Discuss the following in brief:—						
	(a) Candidate key, super key and foreign key	7.5					
	(b) DBA and its responsibilities.	7.5					

- 4. What are the problems arising out of concurrent data access? How concurrency is managed?
- 5. What do you mean by database security? How database security is enforced in a database system? Discuss in detail.

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(Contd.)

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	What is	a sub c	query?	What	are	differen	nt types	of sub
	queries	? What	is co-re	lated s	ub q	uery?	Give exa	imples.

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- 7. What is an index? What are various types of indexes?How do you create an index? Explain with the help of an example.
- 8. What do you mean by package? What are the advantages of packages? What are components of package? Explain the importance of each.

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