## M.Sc. (Part-I) Semester-II (CBCS Scheme) Examination 2MCSW3: COMPUTER SOFTWARE (New)

## Paper—VII

		(Advanced Database Management System)	
Tin	ım Marks : 80		
	Not	te:—(1) Illustrate your answers with the help of neat sketches wherever neces	sary.
		(2) Assume suitable data wherever required.	
I.	(A)	What is database management systems Benchmarking? Explain.	7
	(B)	What are the challenges in database security? Explain.	6
		OR	
2.	(A)	What is privileges? Explain Grant and Revoke privileges with example.	7
	(B)	Explain the following:—	
		(i) Database security challenges.	
		(ii) Audit Trail.	6
3.	(A)	Compare and contrast between OODBMS & ORDBMS.	7
	(B)	Describe the mobile database in detail.	6
		OR	
4.	(A)	Give the details of client server architecture.	7
	(B)	Explain N-tier Architecture with suitable diagram.	6
5.	(A)	Explain the design of parallel systems.	7
	(B)	Explain the following:—	
		(i) Interoperation parallelism.	
		(ii) Intra-operational parallelism.	6
		OR	
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5.	(A)	What is FO parallelism? Explain.	-
	(B)	Explain the following:—	
		(i) Distributed data storage	
		(ii) Availability.	f
7.	(A)	Explain Lock based concurrency control with example.	7
	(B)	Explain transactions and schedule with suitable example.	7
		OR	
8.	(A)	Which are the specialized locking techniques available? Explain.	~
	(B)	What is check pointing? Explain with suitable example.	7
9.	(A)	What is transaction? Explain different properties of transactions.	7
	(B)	Explain the ALTER commands with suitable example.	0
		OR	
10.	(A)	What is database index? Explain simple and unique index with example.	7
	(B)	Explain Order by clause with example.	6
11.	(A)	State and explain the advantages of Hadoop.	-
	(B)	What is Hadoop streaming? How streaming works? Explain	7
		OR	
12.	(A)	Give the architecture of Hadoop in detail.	-
	(B)	Explain Hadoop command reference.	-