

Seat	
No.	

T.E. (Information Technology) (Semester – I) Examination, 2014 DATABASE MANAGEMENT SYSTEMS (2012 Pattern)

Time : 3	Γime : 3 Hours.			Max. Marks : 70	
1. a)	Explain good database de consequences of bad des	e 5			
b)	Explain with suitable exan OR	5			
2. a)	Define serializable schedu	ule. Explain two forms	of serializability.	5	
b)	What is a relation ? What	ple. 5			
3. a)	Explain the following exter i) specialization iii) aggregation i	nded entity relationship ii) generalization v) attribute inheritance		5	
b)	Explain rigorous two phase locking protocol. OR				
4. a)	What is a deadlock ? Exp	lain deadlock recovery	techniques.	4	
b)		ring SQL commands : ii) alter table v) delete	iii) drop table vi) update	6	
5. a)	Explain characteristics an	d advantages of distrik	outed systems.	8	
b)	Detail the procedure for co OR	onnectivity of MongoD	B with Java.	8	
6. a)	Explain the need of data fr	ragmentation and types	s of fragmentation.	8	
b)	Explain the speed-up and scale up issues with respect to parallelism.			8	
7. a)	Draw and explain basic bu	uilding blocks of Hadoo	op.	8	
b)	Describe XML data model OR	l. List the advantages o	of XML.	8	

8.	a)	a) Explain various components of Hadoop.				
	b)	Write a short note on : i) XQuery ii) JSON	8			
9.	a)	a) Draw and explain main components of data warehouse and its characteristics.				
	b)	b) What are the characteristics of NoSQL cloud databases ?				
		OR				
10.	a)	What are the requirements of mobile databases ? List existing mobile dbs.	9			
	b)	What is a decision support system ? Explain storage and data retrieval issues related to it.	9			

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