## YENISI - II : SUMMER - 2016

## **Subject : Data Base Management Theory**

Day : Monday

Day : Monday Date : 06/06/2016			
N.B.:	1) 2) 3)	Attempt <b>ANY FIVE</b> questions from Section – I and attempt <b>ANY TWO</b> from Section – II.  Answers to both the sections should be written in the <b>SAME</b> answer book. Figures to the right indicate <b>FULL</b> marks.	
		SECTION – I	
Q.1		Discuss the main characteristics of the database approach and how it differs [1 from traditional file systems.	10]
Q.2		Discuss how the recovery from catastrophic failure is handled. [1	10]
Q.3		Explain the Two-Phase Locking Mechanism for concurrency control. [1	10]
Q.4		What is meant by the Concurrent execution of database transactions in a [I multiuser system? Discuss why concurrency control is needed.	10]
Q.5		What is Distributed Database? Explain its techniques in detail. [1	10]
Q.6		Discuss the deferred update technique of recovery. What are the advantages and disadvantages of this technique? Why is it called the NO-UNDO/ONLY REDO method?	10]
<b>Q.</b> 7		What is a transaction? Explain ACID properties. [1	10]
		SECTION – II	
Q.8		Draw an E-R diagram for Library Management system. [1	15]
Q.9	a) b)	Explain the following SQL commands with examples:  Update c) Delete Alter d) Drop	15]
Q.10		What is Normalization? Explain 1NF, 2NF, and 3NF with the help of [1 suitable example.	15]