2011

M.Sc.

2nd Semester Examination and DATABASE SYSTEM

PAPER-CS-201

Full Marks: 40

Time: 2 Hours

The questions are of equal value.

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

MODULE—1

(ADVANCED DISTRIBUTED)

(Marks: 20)

Answer any four questions.

- 1. What is timestamp? How timestamp ordering protocol ensures that any conflicting read and write are executed?

 1+4
- 2. What is conflict and view serializability? Explain cascadeless schedules. $1\frac{1}{2}+1\frac{1}{2}+2$
- 3. Check if the decomposition is loss-less or not. Given R(A, B, C, D, E) with the FDs $F = \{AB \rightarrow CD, A \rightarrow F, C \rightarrow D\}$ verify the decomposition of R into R₁ (A, B, C), R₂ (B, C, D), R₃ (C, D, E) is loss-less or not.

What is the need of shadow copy?

4.	 What is multivalued dependency? Describe 4NF verample. 			
5.	(a) Define "Query Tree". What is the purpose of quer Tree?			
	(b) Define 5NF. Write the necessary condition for 5NF			
	$1+1\frac{1}{2}$			
6.	(a) Define DKNF.			
	(b) What are the advantages of Normalization? What i Foreign Key? 2+1			
7 .	What is Check point? What do you mean by date			
	fragmentation? $2\frac{1}{2}+2\frac{1}{2}$			
	MODULE—2			
	(PHP, MY SQL & ASP.NET, ADO.NET)			
	(Marks : 20)			
	Answer any four questions.			
1.	(a) Define seassion?			
	(b) Draw and explain ADO. Net architecture.			
	(c) What is Active Server Page?			
2.	(a) What is WAMP?			
	(b) Write a PHP script for generate n term fibonaci series			
	(c) What is server side programming? $1+2+2$			

3.	(a)	What is cookie?
	(b)	Define the following term— $\frac{1}{2} \times 4$
		(i) Data Reader.
		(ii) Data Adapter.
		(iii) Data set.
		(iv) Data Gridview.
	(c)	What is CLR? Write the features of CLR. 2
4.	(a)	Write down the PHP syntex of following tools — 2
		(i) Radio button.
		(ii) Text area.
	(b)	What purpose we use POST method in web
		application?
	(c)	What is validation control? 2
5.	(a)	How to send an email using ASP-Net? 2
	(b)	Write a PHP script that calculate GCD of two given number?
	(c)	What is OLEDB?
6.	(a)	Design the following web page using PHP script—
		Vidyasagar University
		Publisher Name :
		Type of book: • Technical
		O Non technical
		Location : 🗸 Kolkata
		Mumbai OK

	(D)	write down the advantage of dot net.	2
7 .	(a)	What is the function of MSIL?	2
	(b)	Write a PHP script that illustrate the connection v	vith
		MYSQL database.	2
	(c)	What is assembly?	1