

M.Sc. 2nd Semester Examination, 2013

ADVANCED DISTRIBUTED DBMS

PAPER—COS - 201

Full Marks : 50

Time : 2 hours

Answer any **four** questions

The figures in the right-hand margin indicate marks

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

Illustrate the answers wherever necessary

MODULE – I

[Marks : 25]

1. (a) How would you differentiate between a centralized database system and a distributed database system ?
(b) Which one is better technique page shipping or item shipping and why ? $\left(2\frac{1}{2} + 2\frac{1}{2}\right)$
2. (a) What are the advantages of replication of data in a distributed database system ?

(Turn Over)

- (b) How does the Biased protocol work ? 3 + 2
3. (a) What do you understand by back up co-ordinator ?
- (b) Explain the working principle of Bully Algorithm. 2 + 3
4. (a) What factors would you consider for optimization of a query in a distributed query processing.
- (b) Explain, the difference between scale up and speed up in a database system. 2 + 3
5. What is MVD ? What is FFD ? Explain Read before write protocol with an example. 1 + 1 + 3
6. What is graph Based or tree protocol ? Write down the rules of tree protocol. Advantage of the tree graph protocol. 1 + 3 + 1
7. Write down the rules of 2 phase protocol(2PL). Explain the limitation of 2PL protocol. How do solve the cascading roll back problem ? 1 + 3 + 1

[*Internal Assessment* : 5 Marks]

(3)

MODULE – II

[Marks : 25]

1. (a) What is the significance of using scripting language?
(b) Briefly explain, the types of scripting language you are familiar with. 2 + 3
2. (a) What is the best way of fetching data from a mySQL database to a PHP page? Briefly explain.
(b) How would you connect a mySQL database with a PHP? 3 + 2
3. (a) What purpose does ADO.net fulfill?
(b) Give a basic idea to write a ASP program. Explain as applicable. 2 + 3
4. (a) What is the difference between data reader and data adapter?
(b) What is the role of the Data set object in ADO.NET? 3 + 2

(4 .)

5. (a) What is Season state variable ?

(b) Write the function of cookies.

(c) What is CTS ?

2 + 2 + 1

6. (a) Write short note on following term :

(i) DPTIL

(ii) ADO. Net.

(b) Design web page using pnp script as follows -

VU.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Publisher Name :	<input type="text"/>		
Type of book :	<input type="checkbox"/> Technical		
	<input type="checkbox"/> Non technical		
Location :	<input type="radio"/> Mumbai <input checked="" type="radio"/> Kolkata		
<input type="button" value="Reset"/>		<input type="button" value="Submit"/>	

$\left(1\frac{1}{2} + 1\frac{1}{2}\right) + 2$

[Internal Assessment : 5 Marks]