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 is a distributed database system?

(Turn Over)
(b) How does the Biased protocol work?  

3. (a) What do you understand by back up co-ordinator?
(b) Explain the working principle of Bully Algorithm.

4. (a) What factors would you consider for optimization of a query is a distributed query processing.
(b) Explain, the difference between scale up and speed up is a database system.

5. What is MVD? What is FFD? Explain Read before write protocol with an example.

6. What is graph Based or tree protocol? Write down the rules of tree protocol. Advantage of the tree graph protocol.

7. Write down the rules of 2 phase protocol(2PL). Explain the limitation of 2PL protocol. How do solve the cascading roll back problem?

[Internal Assessment : 5 Marks]
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

PG/11S/COS-201/13 (Turn Over)
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 -

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<thead>
<tr>
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<tbody>
<tr>
<td>Publisher Name:</td>
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<tr>
<td>Type of book:</td>
<td>□ Technical □ Non technical</td>
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<td>Location:</td>
<td>□ Mumbai □ Kolkata</td>
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<tr>
<td>Reset</td>
<td>Submit</td>
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\[ \left(1\frac{1}{2} + 1\frac{1}{2}\right) + 2 \]

[Internal Assessment: 5 Marks]