

Roll No.: _____
Amrita VishwaVidyapeetham
Amrita School of Engineering, Coimbatore
B.Tech Second Assessment Examinations –August 2019
Seventh Semester
Computer Science and Engineering
15CSE376 Net Centric Programming

Time: Two hours

Maximum: 50 Marks

Course Outcomes (COs)

CO	Course Outcomes
CO 01	Understand the basic concepts of web programming and web server architectures
CO 02	Apply markup and scripting languages to design and validate dynamic webpages
CO 03	Evaluate the appropriateness of client/server side scripting for a given real world web application
CO 04	Design, develop and deploy client/server applications
CO 05	Implement the complete web application development cycle as a term project

Set – V

For Office Use only:

Part A	Q1	Q2	Q3	Q4	Q5	Total
Part B	Q6	Q7				
Part C	Q8	Q9	Q10	Q11		

Instructions for students

- Any student found to be Involved in malpractice (Discussion in the exam, Borrowing/Lending stationery, Possession of Mobile Phones or any other material , Login to Internet, Intranet..., Opening any other Existing Files in the systems etc) would be directed to COE Office immediately for further actions.
- Students are STRICTLY instructed to use the provided exam login ONLY.
- Students are to ensure completion of PART A, B and C questions.

Part A

3 X 5 = 15 Marks

1. Write the Schema for the XML code

[CO02][3]

```
<Sportsclubmembers>
  <member id="005">
    <name>Vinay</name>
    <age>40</age>
  </member>
</Sportsclubmembers>
```

2. Write a valid XML document for the given DTD.

[CO02][3]

```
<!ELEMENT countries (country*)>
<!ELEMENT country (language | city)*>
<!ATTLIST country name CDATA #REQUIRED population CDATA
#REQUIRED area CDATA #REQUIRED>
<!ELEMENT language (#PCDATA)>
<!ATTLIST language percentage CDATA #REQUIRED>
<!ELEMENT city (name,population)>
<!ELEMENT name (#PCDATA)>
<!ELEMENT population (#PCDATA)>
```

3. Write notes on XSLT.

[CO02][3]

4. a. What does the Class.forName("MyClass") do?

[CO04][1+1+1]

b. Which of the following type of JDBC driver is the fastest one?

c. ----- holds data retrieved from a database after you execute an SQL query using Statement objects.

5. a. What is the difference between a DTD and a Schema?

[CO02][3]

b. What does 'Markup Language' mean in XML?

c. What is a Schema or a DTD used for?

Part B

15 Marks

6. Write Java Code to write the data from the XML file into Customer database (**Customer Table: Customer ID(PK), Name, Address, Category(Premium | Ordinary | New), Points scored(Max 100), Eligible for discount %**)after validating using DTD. [CO02,CO04][10]

S1 – Creating XML File

S2 – Creating table (backend)

S3 – DTD for validating the file (Use of choice list, compulsory attribute, restrictions on range of values is MUST. Populate atleast 5 records)

S4 – Performing Insert operation on database with Java Code

7. Write Schema specifications for the XML document in Q No 6. Also display the Customer ID, Category and Discount in hand using CSS features in a table. [CO02][5]

Evaluation Scheme

Q No	Section	Max Marks	Marks Awarded	Remarks (IF Any)
6	S1	2		
	S2	1		
	S3	3		
	S4	4		
7	DTD	3		
	CSS	2		
	Total	15		

Signature of the faculty

Part C

20 Marks

Title of the Project:

Specific Contribution under item a,b,c.....

- a. Database Tables used
- b. XML features and DB Connectivity method
- c. Any Others

(Note: Write a Max of Five lines only)

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Evaluation Scheme

Particulars	CO/Max Marks	Marks Awarded
XML/DTD/SCHEMA/XSL/CSS	[CO05][5]	
Documentation	[CO05][5]	
BACKEND update	[CO05][5]	
Viva	[CO05][5]	
Total		

Signature of the faculty