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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Seventh Semester, B.E. – Information Science and Engineering

Semester End Examination; Dec - 2017/Jan - 2018

Web Services

Time: 3 hrs *Max. Marks: 100*

***Note**: Answer **FIVE** full questions, selecting **ONE** full question from each unit.*

UNIT - I

1 a. Differentiate between HTML and XHTML syntax. 6

b. Illustrate HTML tags for "superscript" and "Hypertext Links" with an example. 4

c. Analyze the following HTML program to,

(i) Identify the various HTML tags present and describe their functionality

(ii) List out the missing HTML tags

```
<html>
<body>
<h1>Welcome to the Department to the CSE
<hr />
<p><i>Undergraduate Program</i>intake is 120</p>
<p>Faculty strength is <b>30</></p>
</html>
```

10

2 a. List any five selector forms in CSS and provide an example for each. 10

b. Design a XHTML program with CSS which generates the following output.

1) Web programming

- Test

  i) First

  ii)Second

  iii)Third

- Project

2) Programming with C++

- Test
- Quiz

10

UNIT - II

3 a. List two categories of user defined XML schema data types and explain with example for each. 8

b. With a neat diagram, explain about XSLT processing. 8

c. Create a XML document to store at-least two student information for USN, Name (First name, Last name), Email and address. 4

Contd…2

4 a. A web developer is looking to embed Cricket player information through XML. For each cricket player the information must include player ID(Integer), Name(string), Country(string), Year of Joining(date) and Number of runs scored (integer). You should write

i) "player.XML"to create an instance for at least two players consider two players information to be :

426, Chandan, India, 1-1-2016, 200

427, Dinesh, India, 3-11-2015, 600

16

ii) "player.xsd"to create XML schema for the player information

iii) "player.xsl"to create a XSLT style sheet which displays the player information in table form.

One row for each player.

b. Illustrate the purpose of XML namespace with an example. 4

UNIT - III

5 a. Describe in detail the communication pattern among the requester, provider and the broker. 10

b. Write a note on distributed architecture and World Wide Web. 10

6 a. Explain the different aspects entailed in the growth of distributed architecture. 10

b. What do you understand by the term Supply Chain Management and Customer Relationship Management? What impact has Web services on these applications? 10

UNIT - IV

7 a. Describe the SOAP message structure with an example. 10

b. What are the interactions that take place between the service provider, service requester and service registry in order to invoke a web service? 10

8a. Explain the concept of SOAP binding. 10

b. Describe the different components in structure of a WSDL file. 10

UNIT - V

9 a. Elaborate on the elements of core UDDI. 10

b. Describe the different data structures that make the core UDDI. 10

10 a. Distinguish between synchronous and asynchronous Web services. 10

b. What is a middleware? Give a detailed description of how RPC is used in synchronous Web services? 10

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