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FRANCIS XAVIER ENGINEERING COLLEGE

(An Autonomous Institution)

B.E DEGREE – CONTINUOUS ASSESSMENT EXAMINATION II

Fifth Semester

Computer Science and Engineering 19CS5701- Internet Programming (Regulation 2019)

Time: Three hours Maximum: 100 Marks

Answer ALL Questions

$PART - A (10 \times 2 = 20 \text{ Marks})$

Q.No	Question	Max. Marks
1.	Name the two traditional ways of assigning event handlers in DOM. 1) Via HTML, using attributes 2) Via scripting	2
2.	How HTML DOM allows java script to change the text color and background color of a particular element? html <html> <body> //Set a background color for a document: document.body.style.backgroundColor = "red"; This is an example paragraph. <button onclick="myFunction()" type="button">Return text color of p</button> <script> function myFunction() { alert(document.getElementById("myP").style.color); } </body></td><td>2</td></tr><tr><td>3.</td><td>Vhtml> What is DTD? DTD (Document Type Definition) is a way to describe XML language precisely. DTDs check vocabulary and validity of the structure of XML documents against grammatical rules of appropriate XML language. An XML DTD can be either specified inside the document, or it can be kept in a separate document and then liked separately</td><td>2</td></tr><tr><td>4.</td><td>How to use XML schema? XML Schema is commonly known as XML Schema Definition (XSD). It is used to describe and validate the structure and the content of XML data. XML schema defines the elements, attributes and data types. Schema element supports Namespaces. It is similar to a database schema that</td><td>2</td></tr></tbody></table></script></body></html>	

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describes the data in a database.
          Example:
          <?xml version = "1.0" encoding = "UTF-8"?>
          <xs:schemaxmlns:xs = "http://www.w3.org/2001/XMLSchema">
          <xs:element name = "contact">
          <xs:complexType>
          <xs:sequence>
5.
          Write a PHP program to print factorial of a number.
                                                                                           2
          <?php
          num = 4;
          factorial = 1;
          for ($x=$num; $x>=1; $x--)
           $factorial = $factorial * $x;
          echo "Factorial of $num is $factorial";
          Output :Factorial of 4 is 24
          Write a PHP program to convert an array to string with different parameters.
6.
          $arra = array (? This ", " Is ", " An ", " ARRAY", "!");
          echo " <h4> "." Default array " . " </h2> ";
          print r ($arra);
          echo " <h4> " . " Array to string " . " </h2> ";
          echo implode(" ",$arra)."<br>"; // default separator
          echo implode("_",$arra)."<br/>';
          echo implode("-",$arra)."<br>";
          echo implode("/",$arra);
          echo " <h4> " . " Data type: - " . " </h2> ";
          echo gettype ($arra);
          ?>
          Output: Default array
          Array ([0] \Rightarrow This [1] \Rightarrow Is [2] \Rightarrow An [3] \Rightarrow ARRAY [4] \Rightarrow!)
          Array to string
          This Is An ARRAY!
          This Is An ARRAY!
          This - Is - An - ARRAY-!
          This / Is / An / ARRAY/!
          Data type: -
          Array
7.
          What is AJAX?
          AJAX is an acronym for asynchronous JavaScript and XML. Ajax is a set of
          client side technologies that provides asynchronous communication between
          user interfaces and web server.
          Advantages:
          asynchronous communication
          minimal data transfer
          server is not overloaded with unnecessary load.
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8.	What are the elements of WSDL?	2
	Types— a container for data type definitions using some type system (such as	
	XSD).	
	Message— an abstract, typed definition of the data being communicated.	
	Operation— an abstract description of an action supported by the service.	
	Port Type—an abstract set of operations supported by one or more endpoints.	
	Binding— a concrete protocol and data format specification for a particular	
	port type.	
	Port—a single endpoint defined as a combination of a binding and a network	
	address.	
	Service— a collection of related endpoints	
9.	Write the SOAP structure	2
	xml version="1.0"?	
	<pre><soap:envelopexmlns:soap="http: "<="" 05="" 2003="" pre="" soap-envelope="" www.w3.org=""></soap:envelopexmlns:soap="http:></pre>	
	soap:encodingStyle="http://www.w3.org/2003/05/soap-encoding"> <soap:he< td=""><td></td></soap:he<>	
	ader>	
	<soap:body></soap:body>	
	<soap:fault> </soap:fault>	
10.	Write an example of a web services registry and its function.	2
	It refers to a place in which service providers can impart information about	
	their offered services and potential clients can search for services Example:	
	IBM - WebSphere Service Registry, Oracle Service Registry etc.,	

 $PART - B (5 \times 13 = 65 \text{ Marks})$

Q.No	Question	Max. Marks
11 (a)	i) Explain about the document tree in detail. Program (4) Tree(2) ii)Explain DOM event handling in detail. DOM Events (7) (OR)	6 7
11 (b)	Write a program using mousemove, mouseout events using javascript. Mousemove (4) Mouseout(5)	13
12 (a)	Write XSLT code to display employee details in a Table form which is stored is XML. XML Program(5) XSL Program(5) Output(3) (OR)	13
(b)	Illustrate in detail the XML schema, built in and user defined data types. Program using XML schema (10) Output (3)	13
13 (a)	Create college registration form is used to register students for a course in which students can fill their contact information, academic history etc. and validate the form using PHP. Program (10)	13

	Output(3)			
	(OR)			
(b)	Program (4) Output (2)			
	ii) Write a program using PhP for Fibonacci series using Recursive function Program (4) Output (3)	7		
14a)	Illustrate in detail about the object that helps AJAX reload parts of a webpage without reloading the whole page. Program (10)			
	Output (3)			
	(OR)			
(b)	Write a short notes on REST based JSON Web Services	13		
	About REST and JSON (7)			
	Program with oputput(6)			
15 (a)	Design a web service using SOAP and display the value of the product using XML	13		
	Program using SOAP(10)			
	Output (3)			
	(OR)			
(b)	Discuss in detail about the XML Web Services.	13		
	Introduction (4)			
	WSDL(4)			
	SOAP(5)			
		1		

$PART - C (1 \times 15 = 15 \text{ marks})$

Q.No	Question	Max.
		Marks
16 (a)	Discuss in detail about Regular expressions in PHP	15
	About regular Expressions(10)	
	Program(5)	
	(OR)	
(b)	Write XPATH code to xml file "course.xml" and a stylesheet for that xml file	15
	named "course.xsl". The XSL file uses the XPath expressions	
	under select attribute of various XSL tags to fetch values of	
	category,title,trainer,year,fees, of each course node.	
	XML Program (7)	
	XPATH Program (8)	