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Reg No.:	Name:

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

SIXTH SEMESTER B.TECH DEGREE EXAMINATION(R&S), MAY 2019

		Course Code: CS368 Course Name: WEB TECHNOLOGIES					
Max. Marks: 100 Duration: 3 Hours							
PART A							
		Answer all questions, each carries 3 marks.	Marks				
1		Why do you call MIME as an extension feature? Justify with suitable statements.	(3)				
2		Why is XHTML preferred over HTML?	(3)				
3		What is the role of query string in web communication? Write an example for a	(3)				
		query string.					
4		How can you differentiate header row and data rows in an HTML table?	(3)				
		Illustrate with an example.					
	PART B Answer any two full questions, each carries 9 marks.						
5	a)	Describe the structure of an HTML document with an example. Give description	(5)				
		for the major tags used.	()				
	b)	What is the difference between web servers and browsers in the context of their	(4)				
		implementation and functionality?					
6	a)	What is a CGI? Explain the communication process in CGI.	(5)				
	b)	How can you give an alternate text for an image so that text is displayed when	(4)				
		the image cannot be loaded? Show with an example.					
7	a)	Describe the situations in which POST method is preferred and why?	(4)				
	b)	Design a table in HTML to display the marks of 5 students for 3 subjects.	(5)				
		Student name should be the row headings and subject name should be the column					
		headings. Marks can be of your choice.					
	PART C						
0		Answer all questions, each carries 3 marks.	(2)				
8		What is the speciality of pseudo selectors compared to other selector forms?	(3)				
9		What is a callback function in JavaScript? State how it is different from normal	(3)				
		functions.					
10		How does jQuery enhance the ease of JavaScript code implementation, explain?	(3)				
11		What are the different ways of adjusting spacing in a text? Explain the various	(3)				

style attributes used for that.

PART D

12	a)	Answer any two full questions, each carries 9 marks. Write CSS code for setting the following styles	(6)
		i) Table - A header row with background colour and bold font and other rows	
		without that.	
		ii) Unordered list – Set a smiley image as bullet.	
	b)	What is the difference between JavaScript primitives and objects in the context	(3)
		of how they are stored in memory?	
13	a)	Write a JavaScript program to implement various mathematical operations. Input	(5)
		should be prompted for and confirmation should be asked before proceeding to	
		next operation.	
	b)	What are the advantages of using a CSS framework? Explain the features of	(4)
		Bootstrap in relation to the above answer.	
14	a)	External style sheets are usually preferred over other kinds of style sheets. Why?	(4)
	b)	Illustrate with suitable code samples, the different ways of Array declaration in	(5)
		JavaScript. Arrays in JavaScript are said to be more flexible, why?	
		PART E	
15	a)	Answer any four full questions, each carries 10 marks. Describe the schema of a document implemented in JSON and state how it is	(6)
	,	different from XML schema.	` '
	b)	What are the primitives supported by PHP?	(4)
16	a)	Differentiate between simple and complex data types in XML.	(4)
	b)	Design a simple HTML form to input a string and to display whether it is	(6)
		palindrome or not when the form is submitted. Use a PHP script.	
17	a)	List the various data types used in JSON.	(5)
	b)	What are the contexts in which session tracking can be helpful?	(5)
18	a)	How does the use of cookies help in server-side scripting? Give examples for	(5)
		data stored using cookies.	
	b)	How can CSS be used to display a XML document? Illustrate with an example.	(5)
19	a)	Design an XML document containing details about four students. Student	(5)
		attributes can be added as per your choice.	
	b)	Write a PHP script to search for a particular string pattern in a text.	(5)
20	a)	Illustrate with a sample PHP script, how functions are implemented in PHP.	(5)

b) What is the role of DTD in an XML document? Illustrate with an example. (5)
