Code No: **R1641053**

R16

Set No. 1

IV B.Tech I Semester Regular Examinations, October/November - 2019
WEB TECHNOLOGIES
(Computer Science and Engineering)

Time: 3 hours
Max. Marks: 70

Question paper consists of Part-A and Part-B
Answer ALL sub questions from Part-A
Answer any FOUR questions from Part-B
*****

PART–A(14 Marks)

1.	a)	Under what circumstances is a menu used instead of a radio button group?	[3]
	b)	List out the differences between Java and JavaScript.	[3]
	c)	State the goal of XML.	[2]
	d)	List out the two modes of PHP processor.	[2]
	e)	How many types of operators used in Perl?	[2]
	f)	Explain about Ruby script.	[2]

PART–B(4x14 = 56 Marks)

2.	a)	Explain about the following terms with examples (i) Unordered Lists (ii) Ordered Lists.	[7]
	b)	Illustrate the concept of Conflict Resolution.	[7]
3.	a)	Explain the following terms with examples (i) Absolute Positioning (ii) Relative Positioning.	[7]
	b)	Differentiate between Implicit and Explicit type conversion.	[7]
4.	a)	Describe about XML Document Structure.	[7]
	b)	Outline the advantages and disadvantages of AJAX.	[7]
5.	a)	How PHP variables are used? Explain with examples?	[7]
	b)	State the concept of double quoted strings in PHP with suitable examples.	[7]
6.	a)	Explain the characteristics of Perl with examples.	[7]
	b)	Outline the HTML tags emulation, arrays, and hashes used in Perl.	[7]
7.	a)	Discuss in detail about Pattern matching in Ruby.	[7]
	b)	Explain the concept of inheritance in Ruby with an example.	[7]

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PART–A *(14 Marks)*

1. a) How are scroll bars specified for a text-area control?   [3]
    b) List out the JavaScript reserved words used.   [3]
    c) How are parameters passed in GET AJAX request?   [2]
    d) State the four scalar types of PHP.   [2]
    e) Discuss about types of primary data structures in Perl.   [2]
    f) How to create getter and setter methods in Ruby?   [2]

PART–B *(4x14 = 56 Marks)*

2. a) State the concept of Forms in HTML with examples.   [7]
    b) Discuss about Box Model in CSS.   [7]

3. a) State the two approaches of Pattern matching used in JavaScript.   [7]
    b) How Object creation and Modification done in JavaScript?   [7]

4. a) Illustrate the concept of XML Schemas.   [7]
    b) State the Request Phase and the Receiver Phase of AJAX application.   [7]

5. a) Write a PHP program to add array elements taken as input.   [7]
    b) Describe about Associative array in PHP with suitable example.   [7]

6. a) How to call and identify a subroutine in Perl? Explain with example.   [7]
    b) Discuss in detail the features of Perl programming.   [7]

7. a) Describe about Hashes in Ruby with an example.   [7]
    b) Explain about Blocks and Iterators in Ruby.   [7]

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PART–A*(14 Marks)*

1.	a)	Why it is better to use **em** than **pt** for font sizes?	[3]
	b)	Why parseInt is not used more often?	[2]
	c)	Draw the diagram of traditional and AJAX browser-server interactions.	[3]
	d)	List out the advantages of using PHP.	[2]
	e)	Which features of Perl provides code reusability?	[2]
	f)	How to create an array in Ruby?	[2]

PART–B*(4x14 = 56 Marks)*

2.	a)	Give a detail note on Standard HTML Document Structure.	[7]
	b)	Explain the purpose of **<span>** and **<div>** tags with examples.	[7]
3.	a)	Explain about Control statements used in JavaScript with examples.	[7]
	b)	Discuss about Moving Elements in JavaScript.	[7]
4.	a)	Describe about XSLT Style Sheets with examples.	[7]
	b)	Differentiate between DOM and SAX approaches.	[7]
5.	a)	Write a PHP script to retrieve the data from oracle database.	[7]
	b)	With an example explain the casting of data types in PHP.	[7]
6.	a)	Explain USE and REQUIREMENT statements in Perl.	[7]
	b)	Write a Perl script to find 'N' prime numbers.	[7]
7.	a)	Discuss about Multi dimensional arrays in Ruby with an example.	[7]
	b)	Write a Ruby script to display grades of student using hashes.	[7]

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PART–A*(14 Marks)*

1.	a)	Discuss about the purpose of external style sheets.	[3]
	b)	What are the five primitive data types in JavaScript?	[2]
	c)	State the goal of using AJAX in Web Applications.	[3]
	d)	Outline the reserve words of PHP.	[2]
	e)	List out the data types used in Perl.	[2]
	f)	Differentiate between extend and include in Ruby.	[2]

PART–B*(4x14 = 56 Marks)*

2.	a)	Summarize the concept of Margins and Padding in CSS.	[7]
	b)	Outline the purpose of rowspan and colspan attributes.	[7]
3.	a)	Explain about the following terms: (i) The Math Object (ii) The Number Object	[7]
	b)	Illustrate the concept of Screen Output and Keyboard Input.	[7]
4.	a)	Describe about Internal and External DTD's.	[7]
	b)	Discuss in detail about Namespaces in XML documents.	[7]
5.	a)	Illustrate the concept of predefined and user defined functions in PHP with examples.	[7]
	b)	How PHP session is created and destroyed? Explain with an example.	[7]
6.	a)	Which features of Perl provides code reusability? Give examples of that features.	[7]
	b)	Explain with an example how to open and read the data files in Perl.	[7]
7.	a)	Discuss about array creation, manipulation functions of Ruby with an example.	[7]
	b)	Describe the concept of Rails with an example.	[7]