Code No: RT32055   **R13**   SET - 1

III B. Tech II Semester Regular Examinations, April - 2016
WEB TECHNOLOGIES
(Common to CSE and IT)

Time: 3 hours   Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

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PART –A

1	a)	Write the characteristics of DHTML.	[3M]
	b)	Why XML uses both streaming and tree-based parsing?	[4M]
	c)	What are the protocols used by AJAX?	[4M]
	d)	Differentiate between the 'BITWISE AND' operator and the 'LOGICAL AND' operator in PHP.	[4M]
	e)	How the interpreter is used in Perl?	[3M]
	f)	How to create getter and setter methods in Ruby?	[4M]

PART -B

2	a)	'Javascript is referred to as Object based programming language'. Justify with an example.	[4M]
	b)	Explain how basic and nested tables are created using HTML.	[8M]
	c)	Why doPut() method is preferred over doGet() method?	[4M]
3	a)	Explain the various types of XML schema data types used.	[4M]
	b)	Show how SAX is an alternative method for parsing XML documents. Write its advantages.	[8M]
	c)	Explain the four possible keywords in a DTD declaration with suitable examples.	[4M]
4	a)	Explain the UDDI web service in AJAX.	[8M]
	b)	Discuss how the XMLHttpRequest can be cancelled in AJAX.	[8M]
5	a)	Explain with an example program how to connect to a SQL Server database from a PHP script.	[8M]
	b)	Write a PHP code to validate the form consisting of a username, password and email fields.	[8M]
6	a)	Discuss the features of Perl programming.	[8M]
	b)	How to call and identify a subroutine in Perl? Explain with example.	[8M]
7	a)	Explain the creation of iterators in Ruby with examples.	[8M]
	b)	Discuss the multi dimensional arrays in Ruby programming.	[8M]

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Code No: RT32055   **R13**   SET - 2

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2. Answering the question in **Part-A** is compulsory
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PART –A

1	a)	What are the different types of lists in HTML?	[4M]
	b)	What is PCDATA in XML?	[4M]
	c)	Write the limitations of AJAX.	[4M]
	d)	How to define a variable accessible in functions of a PHP script?	[3M]
	e)	Write the features of CGI.	[3M]
	f)	Differentiate between a **has_one** and **belongs_to** association in Ruby?	[4M]

PART -B

2	a)	Write a script that asks the user to enter two numbers, obtains the two numbers from the user and outputs text that displays the sum, product, difference and quotient of the two numbers.	[4M]
	b)	Explain the classification of HTML tags with examples.	[8M]
	c)	Describe the scoping rules for the Java script.	[4M]
3	a)	Create a DTD to display daily schedule of user.	[3M]
	b)	Write XML Schema for library information system.	[8M]
	c)	Discuss the various terms related to Document Type Definition.	[5M]
4	a)	Discuss the security issues of AJAX.	[8M]
	b)	Explain the SOAP web service in AJAX.	[8M]
5	a)	How the result set of Mysql be handled in PHP?	[8M]
	b)	Write a PHP script to sort the elements of an array.	[8M]
6	a)	What types of primary data structures are supported in Perl? Discuss.	[8M]
	b)	How to search for a page using Perl language elements?	[8M]
7	a)	Define class. Explain how to create a class and its objects in Ruby.	[8M]
	b)	With an example program explain Pattern Matching in Ruby.	[8M]

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Code No: RT32055   **R13**   SET - 3

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Time: 3 hours   Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**

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PART –A

1	a)	What are the benefits of using styles compared with placing formatting directly into the text of the Web page?	[4M]
	b)	Write the applications of XML.	[3M]
	c)	What is Script Manager in AJAX?	[5M]
	d)	Differentiate between **for** and **foreach** statements in PHP.	[4M]
	e)	What are the arguments that are used frequently in Perl?	[3M]
	f)	How does a symbol differ from a string in Ruby language?	[3M]

PART -B

2	a)	Create a HTML which uses CSS that gives all H1 and H2 elements a padding of 0.5 ems; a grooved border style and a margin of 0.5 ems.	[4M]
	b)	What is Document object model? Discuss the various DOM methods used with javascript.	[8M]
	c)	Write a script that reads an integer and determines whether it is PRIME Number or Not.	[4M]
3	a)	Give a brief note on DOM parser.	[3M]
	b)	Design an XML schema for hospital information management.	[8M]
	c)	Explain how a DTD is created with an example.	[5M]
4	a)	Is AJAX code cross browser compatible? Explain.	[8M]
	b)	Discuss the role of WSDL web service in AJAX.	[8M]
5	a)	Explain the user defined functions in PHP with an example.	[8M]
	b)	Write a PHP Code to determine whether a given number is an 'PERFECT NUMBER' or not. [Eg: 6 is a perfect number, since its factors including 1(but not the number itself) sum to the number i.e., 1+2+3 = 6]	[8M]
6	a)	List and explain the operators used in Perl.	[8M]
	b)	Write a Perl script to create a form to mail.	[8M]
7	a)	Discuss about simple I/O statements in Ruby.	[8M]
	b)	Explain Hashes and Methods in Ruby with examples.	[8M]

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Code No: RT32055   **R13**   SET - 4

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Time: 3 hours   Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answering the question in **Part-A** is compulsory
3. Answer any **THREE** Questions from **Part-B**
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PART –A

1 a) Describe the primitive data types that Java script uses.   [3M]

   b) What is Document Type Definition (DTD)?   [4M]

   c) Differentiate between proxied and proxyless calls in AJAX.   [4M]

   d) How to pass a variable by reference in PHP?   [4M]

   e) Mention the ways to express a string in Perl.   [4M]

   f) List the data types supported in Ruby language.   [3M]

PART -B

2 a) Create a HTML form with five basic features.   [3M]

   b) Write about the various Objects used in Java script.   [8M]

   c) Define frame. Create a HTML page that displays multiple frames in a window. [5M]

3 a) Write about SAX Parser.   [3M]

   b) Explain how XML is useful in defining data for web applications.   [8M]

   c) Write the advantages of XML schemas over DTDs.   [5M]

4 a) Is Ajax said to be technology platform or is it an architectural style? Explain [8M]

   b) Describe the Integration of PHP and AJAX with an example.   [8M]

5 a) Discuss the casting of data types in PHP.   [8M]

   b) Write a PHP script to retrieve the data from oracle database.   [8M]

6 a) What are prefix dereferencers in Perl? Explain with examples.   [10M]

   b) Differentiate between Grooving & Shortening of arrays and Splicing of arrays. [6M]

7 a) How would you declare and use a constructor in Ruby?   [8M]

   b) Explain the looping structures available in Ruby.   [8M]

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