**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**

*****

### 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] |

****

|"|'"||"||'"||||

**R13**

**SET - 2**

### 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**

\*\*\*\*\*

### 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   [4M]
       from the user and outputs text that displays the sum, product, difference and
       quotient of the two numbers.

   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]

\*\*\*\*

|"|"'||"||"'||||

**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**
*****

## 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]

****

|"|'"||'||'"||||

**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**

\*\*\*\*\*

## 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 a 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]

\*\*\*\*

|"|'''||'||'''||||