

III B. Tech II Semester Regular/Supplementary Examinations, April - 2017
WEB TECHNOLOGIES

(Common to Computer Science Engineering and Information Technology)

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 various styles in CSS? [3M]
- b) What are the advantages of XML over HTML? [4M]
- c) Define SOAP. Give an example for usage of SOAP. [4M]
- d) Write the structure of PHP script with an example. [3M]
- e) How are the Cookies handled in PERL? [4M]
- f) How to create an array in Ruby? [3M]

PART -B

- 2 a) Design the static web page that display a marks table with three rows and three columns as shown below: [8M]

Marks1	Marks2	Marks3
90	90	99
81	80	82
- b) Explain how events are handled in JavaScript. [8M]
- 3 a) Create a DTD for your daily schedule. [8M]
- b) Define an XML schema. Show how an XML schema can be created. [8M]
- 4 a) What is AJAX? When can we use AJAX? Explain with an example. [8M]
- b) Explain the characteristics of WSDL and SOAP. [8M]
- 5 a) Discuss different types of Conditional statements in PHP. [8M]
- b) Write a PHP program to demonstrate the passing a variable by reference. [8M]
- 6 a) Write a Perl program to connect to a MySQL database table and execute simple commands. [8M]
- b) How to call and identify a subroutine in Perl? Explain with examples. [8M]
- 7 a) What are the three levels of method access control for classes? What do they signify? Explain. [8M]
- b) Write Ruby program which uses Math module to find area of a triangle. [8M]

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PART -A

- 1 a) How DHTML and HTML differ from each other? [4M]
- b) Define Document Type Definition. Give an example. [4M]
- c) What is AJAX? How should AJAX objects be created? [3M]
- d) How *wamp* and *xamp* servers are configured? [4M]
- e) Briefly explain interface with CGI. [3M]
- f) What are different types of variables in Ruby? [4M]

PART -B

- 2 a) Create a HTML document that displays a table of basketball scores at national games in which the team names have their respective team colors. The score of the leading/winning team should appear larger and in a different font than the losing team. Use CSS. [8M]
- b) Write a script that inputs several lines of text and a search character to determine the number of occurrences of the character in the text. [8M]
- 3 a) Discuss the important features of XML which make it more suitable than HTML for creating web related services. [8M]
- b) Explain the creation of namespaces in XML. [8M]
- 4 a) Discuss the integration of PHP with AJAX. [8M]
- b) What are web services platform elements? Explain. [8M]
- 5 a) Explain with examples using of variables and constants in PHP. [8M]
- b) Differentiate between GET and POST methods. How to create a database using PHP? [8M]
- 6 a) List out the categories of Perl functions. Explain any two functions for each category. [8M]
- b) What are the requirements for CGI process? Illustrate the CGI working with a sample script. [8M]
- 7 a) How does a symbol differ from a string in Ruby language? [8M]
- b) Write a Ruby program that uses iterator to find out the length of a string. [8M]

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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) What is well-formed XML document? | [4M] |
| | c) What do we need to deploy a web service? | [3M] |
| | d) How can we execute a PHP script using command line? | [4M] |
| | e) Explain user defined functions in PERL. | [3M] |
| | f) How would you declare and use a constructor in Ruby? | [4M] |

PART -B

- | | | |
|---|--|------|
| 2 | a) Discuss the creation of HTML document with frames. | [8M] |
| | b) Write a JavaScript code to validate a user by considering username as "ABC" and password as "XYZ". Assume username and password is getting from the form element. | [8M] |
| 3 | a) Explain the following terms related to Document Type Definition:
i. elements
ii. attributes & entities
iii. internal & external entities. | [8M] |
| | b) Compare and contrast between DOM and SAX parsers. | [8M] |
| 4 | a) What is WSDL? Explain its features and document structure. | [8M] |
| | b) Create a simple Web Service that converts the temperature from Fahrenheit to Celsius and vice versa. | [8M] |
| 5 | a) Discuss various types of control statements in PHP. | [8M] |
| | b) Explain with an example program how to connect to a SQL Server database from a PHP script? | [8M] |
| 6 | a) Create a CGI form that inputs user name and outputs <i>Hello</i> followed by username. | [8M] |
| | b) List the rules of regular expression matching of Perl. | [8M] |
| 7 | a) Define complex class in Ruby and write methods to carry operations on complex objects. | [8M] |
| | b) Explain pattern matching in Ruby with an example. | [8M] |

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PART -A

- | | | |
|---|---|------|
| 1 | a) Mention the different types of 'Lists' in HTML. | [4M] |
| | b) What is XSLT? | [3M] |
| | c) Are AJAX applications easier to develop than traditional web applications? | [4M] |
| | d) Discuss the casting of data types in PHP. | [4M] |
| | e) Explain HTML tags Emulation with PERL. | [4M] |
| | f) Mention the simple I/O statements in Ruby. | [3M] |

PART -B

- | | | |
|---|---|------|
| 2 | a) Show how group and alignment of tables, rows and columns is achieved using HTML? | [8M] |
| | b) Write a script that inputs a line of text, tokenizes it with String method split() and displays the tokens in reverse order. | [8M] |
| 3 | a) Explain with an example, how can you check an XML document is both valid and well formed document? | [8M] |
| | b) What are the limitations of Document Type Definitions (DTDs)? How these limitations are overcome using XML schema? | [8M] |
| 4 | a) Explain the SOAP technology for providing the communication between the data object. | [8M] |
| | b) Is AJAX code cross browser compatible? Justify with examples. | [8M] |
| 5 | a) Discuss the different data types and operators supported in PHP. | [8M] |
| | b) Write a PHP program to create a Cookie and add the four user ID's and passwords to this Cookie. | [8M] |
| 6 | a) What types of primary data structures are supported in Perl? Discuss. | [8M] |
| | b) Write a Perl program to implement UNIX 'passwd' program. | [8M] |
| 7 | a) Explain the polymorphic association in Ruby with an example. | [8M] |
| | b) Write a Ruby program to create associative arrays. | [8M] |
