

III B. Tech II Semester Regular/Supplementary Examinations, April -2018**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 compulsory3. Answer any **THREE** Questions from **Part-B**

PART -A

- 1 a) Write about different list tags in HTML? [3M]
- b) What is meant by document object model? [4M]
- c) Give 4 operations defined by WSDL? [4M]
- d) What is a PHP Session? [4M]
- e) How many types of operators are used in the Perl? [3M]
- f) Explain the creation of iterators in Ruby with examples. [4M]

PART -B

- 2 a) Write a java script to find factorial of a given number. [4M]
- b) Write CSS code that defines five classes of paragraph with different background, color, margins, padding and border style. [8M]
- c) Explain with example frames in HTML. [4M]
- 3 a) Explain the four possible keywords in a DTD declaration with suitable examples. [3M]
- b) How does an XSLT processor use an XSLT style sheet with an XML document? [8M]
- c) Explain in brief about DOM. [5M]
- 4 a) Employee(id, name, address, designation, salary) [8M]
Write an Ajax program to accept name and salary of employee and increase employee salary by 10% in the database.
- b) Describe briefly the integration of PHP and AJAX [8M]
- 5 a) What is PHP session, how session is created and destroyed. [8M]
- b) Write a PHP script to open, close, read and write into a file. [8M]
- 6 a) Explain USE and REQUIREMENT statements in perl? [8M]
- b) Write a perl script to find n prime numbers. [8M]
- 7 a) Write about pattern matching in RUBY. [8M]
- b) Explain about arrays creation, manipulation functions that support by RUBY with examples. [8M]

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PART -A

- 1 a) Write a java script to check a given number is prime or not? [3M]
- b) What is well-formed XML document? [4M]
- c) Write a short note on role of Ajax engine in synchronization of Ajax programs. [4M]
- d) Name three conditional statements in PHP. [3M]
- e) Which functions in Perl allows you to include a module file or a module and what is the difference between them? [4M]
- f) How to create getter and setter methods in Ruby? [4M]

PART -B

- 2 a) Which types of lists can be created in HTML? [4M]
- b) Write about different methods for implementing cascading style sheets? [8M]
- c) List some advantages of JavaScript. [4M]
- 3 a) Define an XML schema. Explain the creation of XML schema with an example [8M]
- b) Briefly explain the purpose of XML processor. [8M]
- 4 a) Write a PHP script to read student.xml file which contains student roll no, name, address, college, and course. Print students details of specific course in tabular format after accepting course as input. [8M]
- b) What is the scope of variable? List and explain al. scope of variable and super Global variable in PHP with example. [8M]
- 5 a) How the result set of Mysql be handled in PHP? [8M]
- b) Discuss various types of control statements in PHP. [8M]
- 6 a) Explain HTML tags emulation, arrays, and hashes in PERL. [8M]
- b) What is query string? How is it transmitted to the server with the GET and POST methods? [8M]
- 7 a) Define class. Explain how to create a class and its objects in Ruby. [8M]
- b) Explain Hashes and Methods in Ruby with examples. [8M]

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PART -A

- 1
 - a) Write a script for creating and validating a login form? [3M]
 - b) Explain in brief about XML schema [4M]
 - c) What is AJAX? How should AJAX objects be created? [4M]
 - d) What are the different types of errors in PHP? [3M]
 - e) How many types of primary data structures are available in Perl and what do they mean? [4M]
 - f) Write a ruby program to display the second smallest number in the list, along with its position in the list. [4M]

PART -B

- 2
 - a) What is external style sheet? [4M]
 - b) What is web application? Differentiate between client side scripting and server side scripting. [8M]
 - c) Show how group and alignment of tables, rows and columns is achieved using HTML? [4M]
- 3
 - a) Give a brief note on DOM parser. [3M]
 - b) Show how SAX is an alternative method for parsing XML documents. Write its advantages. [8M]
 - c) Explain in brief about XSLT. [5M]
- 4
 - a) Discuss the role of WSDL web service in AJAX. [8M]
 - b) What is MYSQL? What are the different data types in MYSQL? Explain each of them with suitable example. [8M]
- 5
 - a) How can you incorporate one PHP file within another with example? [8M]
 - b) What are cookies? How can you create, access and delete a cookie in PHP with the help of an example. [8M]
- 6
 - a) Write a Perl script to create a form to mail. [8M]
 - b) Describe with an example, the various types of variable in PERL. [8M]
- 7
 - a) Explain how to declare and use a constructor in Ruby? [8M]
 - b) With an example, Explain code blocks and iterators in Ruby [8M]

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PART -A

- 1 a) Write the difference between client side scripting and server side scripting? [3M]
- b) Write the applications of XML. [4M]
- c) Explain advantages and disadvantages of AJAX [4M]
- d) Explain features of PHP? [4M]
- e) Describe code reusability in Perl [3M]
- f) List the data types supported in Ruby language [4M]

PART -B

- 2 a) Explain Built in objects in JavaScript. [4M]
- b) Define frame. Create a HTML page that displays multiple frames in a window. [8M]
- c) Write a JavaScript code to change a background color using buttons. [4M]
- 3 a) Explain XML, XSL and XPATH with example. [3M]
- b) What is the document type definition (DTD)? Describe the approach to declare elements, entities and attributer. [8M]
- c) Explain the purpose of XML parser. [5M]
- 4 a) Explain steps involved in creating web services. [8M]
- b) Describe the Integration of PHP and AJAX with an example. [8M]
- 5 a) What is PHP .Explain data types and variables in PHP. [8M]
- b) What is for each and each in PHP? Write a PHP program for passing by value and passing by reference? [8M]
- 6 a) How can you Send email using perl script. [8M]
- b) Write a CGI program that collects the data from the form and writes it to a file (assume the form data). [8M]
- 7 a) Explain the looping structures available in Ruby. [8M]
- b) With an example, explain simple input and output functions in ruby. [8M]
