### III B. Tech II Semester Regular Examinations, June-2022
# WEB TECHNOLOGIES
(**Common to** Computer Science and Engineering, Information Technology)

Time: 3 hours　　　　　　　　　　　　　　　　　　　Max. Marks: 75

Answer any **FIVE** Questions **ONE** Question from **Each unit**
All Questions Carry Equal Marks
*****

## UNIT-I

1.　a)　Write HTML code to display your class time table.　　[8M]
　　b)　What is a suitable procedure to integrate different style sheets into website? Explain.　　[7M]

**(OR)**

2.　a)　Define CSS. Explain inline, internal style sheets with examples.　　[8M]
　　b)　What is web application? Differentiate between client side scripting and server side scripting.　　[7M]

## UNIT-II

3.　a)　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]
　　b)　Write a java script to find factorial of a given number.　　[7M]

**(OR)**

4.　a)　Explain primitive data types in Java script.　　[8M]
　　b)　Explain how events are handled in JavaScript.　　[7M]

## UNIT-III

5.　a)　Define an Array. Explain about the types of Arrays in PHP with an example.　　[8M]
　　b)　Show how SAX is an alternative method for parsing XML documents. Write its advantages.　　[7M]

**(OR)**

6.　a)　How does an XSLT processor use an XSLT style sheet with an XML document?　　[8M]
　　b)　What are the advantages and disadvantages of Ajax?　　[7M]

## UNIT-IV

7.　a)　What are Cookies? How to create cookies in PHP?　　[8M]
　　b)　How the result set of Mysql is handled in PHP?　　[7M]

**(OR)**

8.　a)　Explain user defined functions in PHP with an example.　　[8M]
　　b)　Write a PHP code to validate the form consisting of a username, password and email fields.　　[7M]

## UNIT-V

9.　a)　Define init and destroy methods in servlets.　　[8M]
　　b)　How does a symbol differ from a string in Ruby language?　　[7M]

**(OR)**

10.　　Write about Pattern Matching in Ruby.　　[15M]

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**1 of 1**

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### UNIT-I
| | | | |
|---|---|---|---|
| 1. | a) | Discuss the creation of HTML document with frames. | [8M] |
| | b) | Write about different methods for implementing cascading style sheets? | [7M] |

### (OR)
| | | | |
|---|---|---|---|
| 2. | a) | Show how group and alignment of tables, rows and columns is achieved using HTML? | [8M] |
| | b) | Write CSS code that defines five classes of paragraph with different background, color, margins, padding and border style. | [7M] |

### UNIT-II
| | | | |
|---|---|---|---|
| 3. | a) | List out the different ways an HTML element can be accessed in a JavaScript code. | [8M] |
| | b) | Write a JavaScript code to test whether the given number is Armstrong number or not. | [7M] |

### (OR)
| | | | |
|---|---|---|---|
| 4. | a) | What are the ways to define a variable in JavaScript? | [8M] |
| | b) | Write a Java Script code to generate the current date in words format "Day, Month Date, Year". (Hint: Friday, December 18, 2015). | [7M] |

### UNIT-III
| | | | |
|---|---|---|---|
| 5. | a) | What is XML Element? Explain various rules while writing XML. | [8M] |
| | b) | Explain in brief about XSLT. | [7M] |

### (OR)
| | | | |
|---|---|---|---|
| 6. | a) | Briefly explain the purpose of XML processor. | [8M] |
| | b) | Discuss the important features of XML which make it more suitable than HTML for creating web related services. | [7M] |

### UNIT-IV
| | | | |
|---|---|---|---|
| 7. | a) | Discuss different types of Conditional statements in PHP. | [8M] |
| | b) | Write a PHP script to open, close, read and write into a file. | [7M] |

### (OR)
| | | | |
|---|---|---|---|
| 8. | a) | Describe briefly the integration of PHP and AJAX. | [8M] |
| | b) | Write a PHP program to demonstrate the passing a variable by reference. | [7M] |

**1 of 2**

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

## UNIT-V

9.  a) Write a Ruby program that uses iterator to find out the length of a [8M]
        string.
    b) Name different methods for IO console in Ruby and explain them. [7M]

**(OR)**

10. a) Explain about arrays creation, manipulation functions that [8M]
        support by RUBY with examples.
    b) Explain Hashes and Methods in Ruby with examples. [7M]

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

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## UNIT-I
| | | | |
|---|---|---|---|
| 1. | a) | Create a HTML form with five basic features. | [8M] |
| | b) | Explain how basic and nested tables are created using HTML. | [7M] |

**(OR)**

| | | | |
|---|---|---|---|
| 2. | a) | Explain frames in HTML with an example? | [8M] |
| | b) | With the neat block diagram explain the CSS Box Model. | [7M] |

## UNIT-II
| | | | |
|---|---|---|---|
| 3. | a) | Explain control structures in Java script. | [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. | [7M] |

**(OR)**

| | | | |
|---|---|---|---|
| 4. | a) | List some advantages of JavaScript. | [8M] |
| | b) | Write about the various Objects used in Java script. | [7M] |

## UNIT-III
| | | | |
|---|---|---|---|
| 5. | a) | Define XML. What are the basic rules to write XML document? Explain with syntax. | [8M] |
| | b) | Explain DTD. Differentiate between DTD and Schema. | [7M] |

**(OR)**

| | | | |
|---|---|---|---|
| 6. | a) | Explain working mechanism of AJAX with suitable example. | [8M] |
| | b) | Create a DTD for your daily schedule. | [7M] |

## UNIT-IV
| | | | |
|---|---|---|---|
| 7. | a) | What is the scope of variable? Explain scope of a local variable and super Global variable in PHP with example. | [8M] |
| | b) | Explain the predefined functions in PHP with an example. | [7M] |

**(OR)**

| | | | |
|---|---|---|---|
| 8. | a) | Employee (id, name, address, designation, salary). Write an Ajax program to accept name and salary of employee and increase employee salary by 10% in the database. | [8M] |
| | b) | What is PHP session, how session is created and destroyed. | [7M] |

## UNIT-V
| | | | |
|---|---|---|---|
| 9. | a) | Explain life cycle of a servlet. | [8M] |
| | b) | Explain how to declare and use a constructor in Ruby. | [7M] |

**(OR)**

| | | | |
|---|---|---|---|
| 10. | a) | List and explain various features of Ruby language. | [8M] |
| | b) | Define class. Explain how to create a class and its objects in Ruby. | [7M] |

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|'''|'|'|''||'''||||

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## UNIT-I
| | | | |
|---|---|---|---|
| 1. | a) | Explain the classification of HTML tags with examples. | [8M] |
| | b) | Explain different form elements available in HTML. | [7M] |

**(OR)**

| | | | |
|---|---|---|---|
| 2. | a) | Write the structure of HTML Program and explain with an example. | [8M] |
| | b) | Explain external and embedded style sheets with examples. | [7M] |

## UNIT-II
| | | | |
|---|---|---|---|
| 3. | a) | 'Javascript is referred to as Object based programming language'. Justify with an example. | [8M] |
| | b) | Explain variables and operators in Java script. | [7M] |

**(OR)**

| | | | |
|---|---|---|---|
| 4. | a) | Write a script that reads an integer and determines whether it is PRIME Number or Not. | [8M] |
| | b) | Describe the scoping rules for the Java script. | [7M] |

## UNIT-III
| | | | |
|---|---|---|---|
| 5. | a) | Explain the various types of XML schema data types. | [8M] |
| | b) | Explain the importance of XML in web applications. | [7M] |

**(OR)**

| | | | |
|---|---|---|---|
| 6. | a) | Explain the creation of namespaces in XML. | [8M] |
| | b) | Explain in brief about DOM. | [7M] |

## UNIT-IV
| | | | |
|---|---|---|---|
| 7. | a) | What is $_SESSION in PHP? Explain by writing a program. | [8M] |
| | b) | Discuss various types of control statements in PHP. | [7M] |

**(OR)**

| | | | |
|---|---|---|---|
| 8. | a) | Explain with examples using of variables and constants in PHP. | [8M] |
| | b) | How can you incorporate one PHP file within another? Explain with example. | [7M] |

## UNIT-V
| | | | |
|---|---|---|---|
| 9. | a) | What is a Servlet? What are the advantages of servlets? | [8M] |
| | b) | With an example, explain code blocks and iterators in Ruby. | [7M] |

**(OR)**

| | | | |
|---|---|---|---|
| 10. | a) | Explain the implementation of Inheritance in Ruby. | [8M] |
| | b) | Write Ruby program which uses Math module to find area of a triangle. | [7M] |

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