

Reg No.: \_\_\_\_\_

Name: \_\_\_\_\_

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**  
**SIXTH SEMESTER B.TECH DEGREE EXAMINATION(R&S), MAY 2019**

**Course Code: CS368**

**Course Name: WEB TECHNOLOGIES**

Max. Marks: 100

Duration: 3 Hours

**PART A**

*Answer all questions, each carries 3 marks.*

Marks

- |   |  |     |
|---|--|-----|
| 1 | Why do you call MIME as an extension feature? Justify with suitable statements.                  | (3) |
| 2 | Why is XHTML preferred over HTML?  | (3) |
| 3 | What is the role of query string in web communication? Write an example for a query string.      | (3) |
| 4 | How can you differentiate header row and data rows in an HTML table? Illustrate with an example. | (3) |

**PART B**

*Answer any two full questions, each carries 9 marks.*

- |   |   |     |
|---|---|-----|
| 5 | a) Describe the structure of an HTML document with an example. Give description for the major tags used.  | (5) |
|   | b) What is the difference between web servers and browsers in the context of their implementation and functionality?  | (4) |
| 6 | a) What is a CGI? Explain the communication process in CGI.   | (5) |
|   | b) How can you give an alternate text for an image so that text is displayed when the image cannot be loaded? Show with an example.   | (4) |
| 7 | a) Describe the situations in which POST method is preferred and why?   | (4) |
|   | b) Design a table in HTML to display the marks of 5 students for 3 subjects. Student name should be the row headings and subject name should be the column headings. Marks can be of your choice. | (5) |

**PART C**

*Answer all questions, each carries 3 marks.*

- |    |   |     |
|----|---|-----|
| 8  | What is the speciality of pseudo selectors compared to other selector forms?                | (3) |
| 9  | What is a callback function in JavaScript? State how it is different from normal functions. | (3) |
| 10 | How does jQuery enhance the ease of JavaScript code implementation, explain?                | (3) |
| 11 | What are the different ways of adjusting spacing in a text? Explain the various             | (3) |

style attributes used for that.

#### PART D

*Answer any two full questions, each carries 9 marks.*

- 12 a) Write CSS code for setting the following styles (6)
- i) Table - A header row with background colour and bold font and other rows without that.
  - ii) Unordered list – Set a smiley image as bullet.
- b) What is the difference between JavaScript primitives and objects in the context of how they are stored in memory? (3)
- 13 a) Write a JavaScript program to implement various mathematical operations. Input should be prompted for and confirmation should be asked before proceeding to next operation. (5)
- b) What are the advantages of using a CSS framework? Explain the features of Bootstrap in relation to the above answer. (4)
- 14 a) External style sheets are usually preferred over other kinds of style sheets. Why? (4)
- b) Illustrate with suitable code samples, the different ways of Array declaration in JavaScript. Arrays in JavaScript are said to be more flexible, why? (5)

#### PART E

*Answer any four full questions, each carries 10 marks.*

- 15 a) Describe the schema of a document implemented in JSON and state how it is different from XML schema. (6)
- b) What are the primitives supported by PHP? (4)
- 16 a) Differentiate between simple and complex data types in XML. (4)
- b) Design a simple HTML form to input a string and to display whether it is palindrome or not when the form is submitted. Use a PHP script. (6)
- 17 a) List the various data types used in JSON. (5)
- b) What are the contexts in which session tracking can be helpful? (5)
- 18 a) How does the use of cookies help in server-side scripting? Give examples for data stored using cookies. (5)
- b) How can CSS be used to display a XML document? Illustrate with an example. (5)
- 19 a) Design an XML document containing details about four students. Student attributes can be added as per your choice. (5)
- b) Write a PHP script to search for a particular string pattern in a text. (5)
- 20 a) Illustrate with a sample PHP script, how functions are implemented in PHP. (5)

- b) What is the role of DTD in an XML document? Illustrate with an example. (5)

\*\*\*\*

