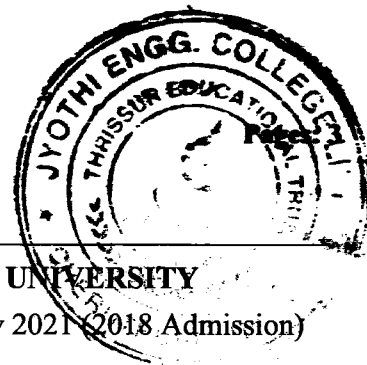


F

03000CS368052002



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

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

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**  
Sixth Semester B.Tech (Hons) Degree Examination July 2021 (2018 Admission)

**Course Code: CS368**

**Course Name: WEB TECHNOLOGIES**

Max. Marks: 100

Duration: 3 Hours

**PART A**

*Answer all questions, each carries 3 marks.*

Marks

- |   |   |     |
|---|---|-----|
| 1 | What is the significance of domain names in Internet.   | (3) |
| 2 | Write and explain the general format of URL.  | (3) |
| 3 | Explain the tags <pre> and <blockquote> in HTML with examples.  | (3) |
| 4 | Write HTML code for the following with some sample data.<br>a) Display an image which is a link to another document.<br>b) Display an unordered list of 4 items.<br>c) Display a subscript to a variable. | (3) |

**PART B**

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

- |   |  |     |
|---|--|-----|
| 5 | a) Explain the sequence of steps performed during HTTP communication.  | (5) |
|   | b) Describe the major features of CMS.   | (4) |
| 6 | a) Write down the syntactic difference between HTML and XHTML.   | (5) |
|   | b) What is the purpose of using MIME format specifier? Explain with one example.   | (4) |
| 7 | a) Design an HTML document that has a form with the following controls:<br>a. A text box to collect Students's name.<br>b. Four checkboxes, one each for the following items:<br>i. Diploma    ii. B.Tech    iii. M.Tech    iv. Phd<br>c. Drop down menu for selecting Academic year.<br>d. A collection of three radio buttons that are labeled as follows:<br>i. Visa    ii. Master Card    iii. Debit Card<br>e. Submit and Reset buttons.<br>Give suitable labels for each item. | (9) |

**PART C***Answer all questions, each carries 3 marks.*

- 8 Differentiate generic selectors and universal selector with examples. (3)
- 9 What do you mean by Box Model ? (3)
- 10 Write a JavaScript that prompt the user to enter a number and print the sum of the digits of that number in the document. (3)
- 11 Explain the implicit and explicit type conversions in JavaScript. (3)

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

- 12 a) Create an external style sheet which will make styles as follows. (5)
- i) create a class named, *big*, which set any four *font* properties.
  - ii) When mouse pointer moves to the content of <h2>, it should be displayed as red.
  - iii) Unordered list with bullet type *disc*.
- Design an HTML document also which will make use of this style sheet.
- b) Differentiate <div> and <span> tags (2)
- c) What are the advantages of Bootstrap? (2)
- 13 a) Write styles for elements as follows (5)
- i) Table with border type dotted and color blue.
  - ii) <p> element with background color red and text underlined.
  - iii) set both line spacing and padding to 2 px in a <p> element.
  - iv) set background image to 'plane.png' with size 200X300 pixels.
  - v) Display an image 'sky.png' on the right side of the display and the text flow around the left side of the image.
- b) What are the advantages of jQuery over JavaScript? (4)
- 14 a) Explain the various methods associated with array objects in JavaScript. (4)
- b) Write a JavaScript that will compute the mean and median of an array of numbers. Separate functions should be written for each computation. (5)

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

- 15 a) What is the difference between an external and internal DTD? Explain with examples. (5)
- b) Compare JSON and XML. (5)

- 16 a) What is an XSL Document? Explain how the XSLT Processor transforms an XML document to XSL Document. (5)
- b) Create an XML schema for an XML document with employee details where each Employee element has the child elements *name*, *department* and *email\_id*. The *name* element has the child elements *first\_name*, *middle\_name* and *last\_name*. *employee\_no* is an attribute of the Employee element and it is of the type integer. (5)
- 17 a) What do you mean by DTD? Explain how the elements and attributes are declared in a DTD with examples. (5)
- b) What is the advantage of XML schema over DTD? (5)
- 18 a) Explain the logical internal structure of an array in PHP. (5)
- b) Explain the local, static and global variables in PHP with one example. (5)
- 19 a) Write the HTML code to provide a form that collects the name and marks of five subjects of a student. Write a PHP script that will process these details and print the total and average marks of the student. (6)
- b) Explain the session tracking in PHP with one example. (4)
- 20 a) Write a PHP function that will find out the frequency of occurrence of each word in a constant string given. Print the words with odd frequencies in the order of occurrence. (6)
- b) What is the purpose of using cookies? How can a cookie be created in a PHP script? How can a script determine whether a particular cookie exists? (4)

\*\*\*\*