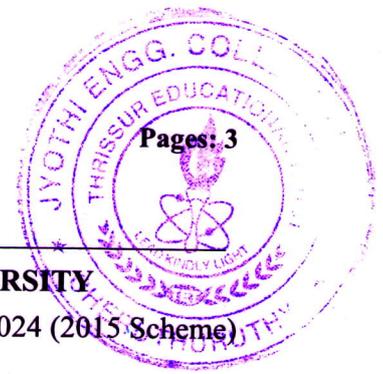


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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.Tech Degree S6 (S, FE) / S6 (PT) (S, FE) Examination January 2024 (2015 Scheme)

Course Code: CS368

Course Name: WEB TECHNOLOGIES

Max. Marks: 100

Duration: 3 Hours

PART A

Answer all questions, each carries 3 marks.

Marks

- 1 Justify with suitable explanation the statement "MIME is used as an extension feature". (3)
- 2 State the advantages of Content management system (3)
- 3 Illustrate with an example how you can give an alternate text for an image so that text is displayed when image can't be loaded. (3)
- 4 Differentiate between block tags and inline tags. Illustrate with example. (3)

PART B

Answer any two full questions, each carries 9 marks.

- 5 a) Differentiate between HTML and XHTML. (3)
b) Design a form as given below (6)

Employee Details

Id:

Name:

Gender : Male female

Designation:

Salary:

- 6 a) Write an HTML code to design a webpage to create a table with 6 rows and 3 columns for entering mark list of 5 students. Assume suitable column headings (5)
b) HTML code for submit button clicking on which will prompt browser to send the form data to server "http://response. mysite. com" using "POST" method. (4)

- 7 a) Write the difference between colspan and rowspan attributes with an example. (4)
b) Describe about the different HTTP methods and their functions (5)

PART C

Answer all questions, each carries 3 marks.

- 8 Explain the request and response phases of HTTP (3)
9 Describe the advantages of using bootstrap. (3)
10 Write a JavaScript program to find the factorial of a number (3)
11 Describe the role of query string in web communication. Write an example for a query string. (3)

PART D

Answer any two full questions, each carries 9 marks.

- 12 a) Write CSS code for the following- (5)
1) set the background color for the hover and active link states to yellow
2) set the list style for unordered lists to square
3) set 'flower.gif' as the background image of the page
4) set dashed border for the document
b) Illustrate with suitable code samples, the different ways of Array declaration in JavaScript. Arrays in JavaScript are said to be more flexible, why? (4)
- 13 (a) List the advantages of using a CSS framework. Explain the features of bootstrap. (4)
(b) Differentiate between and <div> tags with example. (5)
- 14 a) Explain about CSS class selectors. Write the code for CSS style rules to display the content of paragraph tags in two different styles depending on context. (5)
Style 1- text to be displayed in blue colour, right aligned, underlined, font style in italics and spacing between words of text to 2cm.
Style 2- text to be displayed with background colour yellow, with dashed and blue colour border and padding of 1.5cm.
b) Explain how event handlers are registered in JavaScript. Write the code for an HTML document with embedded JavaScripts, which initially displays a paragraph with text 'Welcome' and a button titled 'Click'. When the button is clicked, the message 'Hello from JavaScript' in bold should replace the paragraph text. (4)

PART E

Answer any four full questions, each carries 10 marks.

- 15 a) Explain how XSLT style sheets can be used to control page layout in XML. (4)
b) List out the different pattern matching functions in PHP. Explain with example. (6)

- 16 a) Describe the schema of a document implemented in JSON and state how it is different from XML schema. (5)
b) Describe the significance of DTD. Explain how to define entities, attributes and elements in DTD. (5)
- 17 a) Describe how CSS can be used to display a XML document. Illustrate with an example. (5)
b) Write a PHP script to search for a particular string pattern in a text. (5)
- 18 a) Illustrate with example the role of DTD in an XML document. (4)
b) Write a program to find the number of times a particular website is being visited using session in PHP. (6)
- 19 a) Describe the significance of cookies in web. How can a cookie be created and destroyed in PHP. (5)
b) Differentiate between JSON and XML. (5)
- 20 a) Design an HTML form for entering a number by the user. Write a PHP code to display a message indicating, whether the number is odd or even, when clicking on the submit button. (7)
b) Explain the use of XML namespace. (3)
