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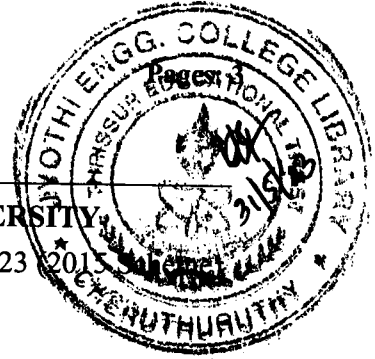
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Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.Tech Degree S6 (S, FE) / S6 (PT) (S, FE) Examination May 2023



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 www? Differentiate between www and Internet. | (3) |
| 2 | Mention the needs of MIME in web. | (3) |
| 3 | List any four tags used in HTML tables with an example. | (3) |
| 4 | Create a drop down list in HTML forms with the options CS, EC, EEE and IT. | (3) |

PART B

Answer any two full questions, each carries 9 marks.

- | | | |
|---|--|-----|
| 5 | a) Explain in detail the general formats of an HTTP request and HTTP response. | (7) |
| | b) Illustrate commenting in HTML with an example. | (2) |
| 6 | a) With the help of a neat diagram, explain the different components of a Content Management System (CMS). | (6) |
| | b) What are elements in HTML? Compare inline and block elements. | (3) |
| 7 | a) List the different entities used in HTML. | (2) |
| | b) Write HTML code for the following: | (3) |
| | 1. Display an image when a hyper link is clicked | |
| | 2. A large webpage document which contains five headings. Create a hyperlink at the top of the web page which when clicked will scroll the page down to the third heading. | |
| | c) Write example HTML code to display an ordered list inside an unordered list. | (4) |

PART C

Answer all questions, each carries 3 marks.

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|----|--|-----|
| 8 | What are pseudo classes in CSS? | (3) |
| 9 | List any three different CSS properties and explain their purpose. | (3) |
| 10 | Highlight the differences between Java and JavaScript. | (3) |
| 11 | List and give examples for the primitive data types in JavaScript. | (3) |

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

- 12 a) Using a diagram explain the box model in CSS and list different properties used. (5)
- b) Illustrate with examples the different keyboard input and screen output statements in JavaScript. (4)
- 13 Write CSS style rule to enforce the following styles in a web page: (9)
1. Page margin : left - 20pt, top - 25pt, right - 15pt
 2. Headings: h1 – 28pt, blue, Arial, h2 – 18pt italic, blue, Arial
 3. Paragraph: left padding – 15pt, right padding – 10pt
 4. Text : 14pt, Times New Roman
 5. Image : Text should flow around the right side of images
- 14 Create two web pages for doing user registration and user login as below using HTML and JavaScript. (9)
1. User registration: A form with the fields name, phone no, e-mail, username, password, confirm password (reg.html)
 2. Login page: A form with fields user name, password (login.html)
- Do necessary validations in each webpage before form submission.

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

- 15 a) What is DTD? How elements, attributes and entities are declared in DTD? (5)
- b) Define a DTD for storing details of the students in a class with properties name, age, address, branch, marks. Write an example XML document for this DTD. (5)
- 16 a) Describe the data types used in XML schema definition. (5)
- b) Explain how XSLT style sheets can be used for displaying XML documents with a suitable example. (5)
- 17 a) Highlight the main differences between XML and HTML. (3)
- b) What is the use of namespaces in XML? Illustrate the application of namespaces with a suitable example. (4)
- c) What is the utility of cookies in the web? How does the use of cookies differ from session tracking? (3)
- 18 a) What is the use of PHP processor? Explain its different modes of operation. (3)
- b) Illustrate explode() and implode() function in PHP with examples. (3)
- c) List and briefly explain the data types in PHP. (4)

- 19 a) Highlight the difference between sort, asort and ksort PHP functions with a suitable example. (5)
- b) Write a PHP program to find average, largest and sum of squares of three numbers using functions. (5)
- 20 a) How is an array is declared in PHP? Mention with example any two library functions dealing with array. (3)
- b) Write PHP script to check whether a string is a palindrome or not and display the result. Pass the string to the script from a user submitted form. (7)
