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## Question Paper Code: 70448

B.E./ B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2023.

## Sixth Semester

Computer Science and Engineering

## CS 8651 - INTERNET PROGRAMMING

(Common to: Computer and Communication Engineering)

(Regulations 2017)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A —  $(10 \times 2 = 20 \text{ marks})$ 

- 1. What is Web 2.0?
- 2. With the help of a sample URL, specify its components.
- 3. Provide DOM tree for a basic HTML document.
- 4. List any four methods in date object in JavaScript.
- 5. Define Servlet.
- 6. Write the JSP tag used to print the result of 112\*123.
- 7. List any four built-in functions in PHP.
- 8. Write the DTD for following XML Tags:

<Book id=:"B001">

<Title>Head First Java</Title>

<Category>Programming</Category>

<FAuthor>Kathy Sierra</FAuthor>

</Book>

- 9. What is meant by Ajax? And write its features.
- 10. What is WSDL? And write its applications.

11. (a) (i) Write a HTML page that displays the following table:

,, 1100 G TT TT	- P - P				
Month	Savings	Maximum Savings/month			
January \$100		\$100			
February	\$80	φ100			
Total S	avings	\$180			

(ii) Write the HTML page with a tag to insert an image "products.png" and link the image to a html page name "productlist.html". (6)

Or

(b) Design the following webpage using HTML and CSS grids by externally linking the CSS with 4 images as given below Figure 11(b).

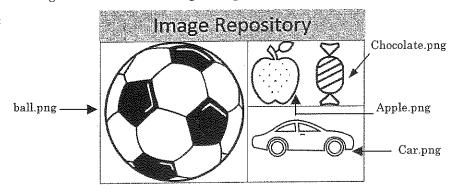


Figure 11(b)

- 12. (a) Create a HTML Page with components as shown below, with the following Java Script validations:
  - (i) Mandatory fields should be verified (those with\*)
  - (ii) Username should be a valid mail-id
  - (iii) Mobile number should be digits with minimum 10 digits.
  - (iv) Password should be of length 8.

Login Credentials

User Name (mail-id)*	
Password*	
Mobile number	
register	

Or

(7)

- (b) Create the HTML page with components as below. Write the JAVA SCRIPT code such that:
  - (i) On clicking Add, a number entered should be added in an array (validate for number and empty cases).
  - (ii) On Clicking Sum, the array elements and the sum of array should be printed as given.

Add Sum

Array:-21-67-11

Sum is: 99

13. (a) (i) Explain in detail Servlet life cycle.

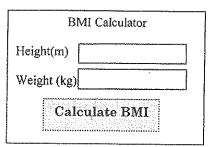
(7)

(ii) Differentiate GET and POST method.

(6)

Or

- (b) Discuss upon how the web page developed using JSP is simplified using JSTL.
- 14. (a) Create a PHP application that calculates BMI Body Mass Index of a person by giving input through the form and print the status of BMI category as a response in the next page as below. Figure 14(a).



Your BMI: 29.0318

You're Obese. The normal BMI range is between 18.5 and 24.9

Figure 14(a)

Note:

BMI category is

<18.5 Underweight

18.5 - 24.9 Healthy

25 – 29.9 Overweight

>30 Obese

and the formulae is [weight (kg) / [height (m)]2]

Or

