

Register No.: Name:

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

SEVENTH SEMESTER B.TECH DEGREE EXAMINATION (R), DECEMBER 2023**COMPUTER SCIENCE AND ENGINEERING****(2020 SCHEME)****Course Code : 20CST461****Course Name: Web Programming****Max. Marks : 100****Duration: 3 Hours****PART A****(Answer all questions. Each question carries 3 marks)**

1. Write the syntax of URL with suitable example.
2. Write the HTML code to display the following table

Flower Show	
Flower Name	Colour
Red Rose	Red
White Rose	White
Jasmin	

3. Briefly explain CSS Box model with neat diagram.
4. Discuss various types of control statements in JavaScript.
5. Explain the different ways to create array in PHP with example.
6. Discuss how pattern Matching is done in PHP ?
7. Explain the uses of cookies in web pages.
8. Discuss the various steps for establishing PHP-MySQL connection with a MySQL database?
9. List the various data types used in JSON.
10. Explain the role of Resource controllers in Laravel.

PART B**(Answer one full question from each module, each question carries 14 marks)****MODULE I**

11. a) What is HTML? Explain the structure of HTML document. (8)
 b) Design an HTML document that has a form with the following controls:
 - I. A text box to collect Students' name.
 - II. Four checkboxes, one each for the following items: (6)
 - i. Diploma
 - ii. B.Tech
 - iii. M.Tech
 - iv. Phd
 - III. Drop down menu for selecting Academic year.
 Give suitable labels for each item.

OR

12. a) Explain following html tags with proper example. (4)
i).<input> ii).< form>
- b) Write HTML code to implement a form which has the following elements: (10)
- I. A textbox which can accept a maximum of 25 characters
 - II. Three radio buttons with valid Label, Names and values
 - III. Three check boxes with valid Label, Names and values
 - IV. A selection list containing four items, two of which are always visible.
 - V. A submit button clicking on which will prompt the browser to send the form data to the server `http://www..mysite.com/reg.php` using "POST" method and reset button to clear its contents. You can use any text of your choice to label the form elements.

MODULE II

13. a) Write CSS and the corresponding HTML code for the following: (6)
- I. Set the background color for the hover and active link states to "green"
 - II. Set the list style for unordered lists to "square".
 - III. Set "Flower.png" as the background image of the page and set 3% margin for the pages
 - IV. Set dashed border for left and right and double border for top & bottom of a table with 2 rows
- b) Illustrate the different ways of Array declaration in JavaScript. Describe the function of the following JavaScript Array object methods with examples. (8)
- I. join
 - II. slice

OR

14. a) Explain the process of fetching a web page from a web server to a client browser. At what point does an embedded PHP script gets executed ?. What are the two modes that the PHP processor operates in? (7)
- b) Explain client-side scripting. Write a JavaScript program which accepts N as input and print first N even numbers. (7)

MODULE III

15. a) Explain how does a PHP array differ from an array in C? List the different ways to create an array in PHP with an example. Explain any 4 functions that deals with PHP array. (9)
- b) Write a PHP program to check whether the given number is Armstrong or not. (5)

OR

16. a) Explain why is PHP considered to be dynamically typed? Distinguish between implode and explode function in PHP with suitable examples. (9)
- b) Write a PHP script to count the instances of words in a string. (5)

MODULE IV

17. a) Write a PHP form handling program to perform the user registration of any website with a minimum of 5 different fields and insert the data into a MySQL table after establishing necessary connections with the DB. (8)
- b) Design the HTML page which enters a given number and embed the PHP code to display a message indicating, whether the number is odd or even, when clicking on the 'CHECK NUMBER' button. (6)

OR

18. a) Write a PHP form handling program to verify the user authentication credentials of a web page using MySQL connection and store the userid value as a Session variable if the it is valid. (10)
- b) What is the significance of cookies in web? How can a cookie be created and destroyed in PHP? (4)

MODULE V

19. a) Enumerate the data types in JSON. Illustrate the document definition of a 'Student document' using JSON Schema. (9)
- b) With a neat diagram, explain about Laravel MVC Framework. (5)

OR

20. a) Describe the schema of a document implemented in JSON. (5)
- b) Discuss in detail about Laravel's Routing mechanisms. (9)
