

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.Tech Degree S7 (R,S) (FT/WP) Examination November 2025 (2019 Scheme).

Course Code: CST463**Course Name: WEB PROGRAMMING****Max. Marks: 100****Duration: 3 Hours****PART A***Answer all questions, each carries 3 marks.*

Marks

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|----|---|-----|
| 1 | What is MIME? Discuss its importance in web communication. | (3) |
| 2 | Write the HTML code to embed a promotional video 'MyVideo.mp4' in a web page where 'autoplay' option is enabled and displayed in a standard dimension 750 X500. | (3) |
| 3 | How are conflicts resolved when multiple style rules apply to a single web page element? External style sheets are usually preferred over other kinds of style sheets. Why? | (3) |
| 4 | List any three data types in JavaScript and provide an example for each | (3) |
| 5 | Explain any three string handling functions used in PHP. | (3) |
| 6 | Write a PHP program to compute the sum of the positive integers up to 100 using a do while loop. | (3) |
| 7 | Distinguish between implode and explode functions in PHP | (3) |
| 8 | Write PHP statements to insert data into the MySQL table. | (3) |
| 9 | What is a Controller in Laravel, and how do you create and use it to handle HTTP requests? | (3) |
| 10 | Describe the JSON Object with suitable examples. | (3) |

PART B*Answer any one full question from each module, each carries 14 marks.***Module I**

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|----|----|--|-----|
| 11 | a) | How to add Hyperlinks in HTML pages? Explain internal linking in a web page with suitable example. | (6) |
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- 11 b) Describe how you can create and structure tables in HTML. Write the HTML code for the following table (8)

Flower Show	
Flower Name	Colour
Red Rose	Red
White Rose	White
Jasmine	
Sunflower	Yellow

OR

- 12 a) Create a HTML form for registering to a jobsite which includes fields to enter your name, address, e-mail, contact number, a date picker to include your date of birth, radio buttons to select you sex, check boxes to show your area of interest, a selection list to input your experience with a submit and reset button. All fields must be labelled appropriately. (8)
- b) Explain the basic concepts of the web, including the roles of a web server and a web browser. (6)

Module II

- 13 a) Explain the style specification format in CSS. Discuss the various types of CSS selectors with suitable examples. (8)
- b) Using Javascript function validate an HTML form containing textboxes for entering username, password and a submit button. Validation should check the following criteria, if they're not satisfied, an alert must be given. (6)
- Username must not be blank
 - Password must not be less than 6 characters

OR

- 14 a) Organize a sample web page for the Technical event at your campus and use embedded Style sheet to apply minimum of eight style properties. State the Style Specification format of embedded style sheet. (8)
- b) Illustrate the usage of JavaScript DOM in event handling with examples. (6)

Module III

- 15 a) Write a PHP program that defines a user-defined function 'Calculator' which will accept two input values through an HTML form and perform four basic mathematical operations. (8)
- b) What is a cookie? How does PHP support the concept of cookies? Explain the difference between sessions and cookies. (6)

OR

- 16 a) Discuss the flow control functions and control statements in PHP. (8)
- b) Discuss string processing in PHP with examples. (6)

Module IV

- 17 a) With suitable examples, discuss the various steps for establishing
I. PHP-MySQL connection with a database (8)
II. PHP-MySQL Query Execution
- b) Write a PHP form handling program to perform the user registration in any student portal with a minimum of 5 different fields and insert the data into a MySQL table after establishing necessary connections with the DB. (6)

OR

- 18 a) Explain the process of form processing in PHP. How do you handle form data, validate inputs, and implement business logic before storing or processing data in a database? (8)
- b) Explain how dynamic content is fetched from the database and displayed on a webpage. (6)

Module V

- 19 a) Enumerate the data types in JSON. Illustrate the document definition of a 'Student document' using JSON Schema. (8)
- b) Discuss the role of Resource Controllers in Laravel. (6)

OR

- 20 a) Explain the Laravel MVC framework with the help of a neat diagram. Include an example of how data flows through each component in the MVC structure. (8)
- b) Explain the functionality of JSON.parse() and JSON.stringify() in JavaScript. (6)
