

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***UG / PG DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2026****Fourth Semester****Information Technology****IT3401/UITTTL24402 - WEB ESSENTIALS****Regulations – 2021/2024****Duration : 3 Hrs****Maximum : 100 Marks****PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)**

Q.No	Questions	BLT	CO	Marks
1.	List different types of web protocols.	L1	1	2
2.	Difference between client-side scripting and server-side scripting.	L2	1	2
3.	Write an HTML code to list the available departments in your college.	L2	2	2
4.	Name the different types of selectors used in CSS.	L1	2	2
5.	How to declare a variable in JavaScript and give the rules for naming the Identifier.	L1	3	2
6.	Write a JavaScript code to display the current day and time in the format DD-MM-YYYY HH: MM using the Date object.	L2	3	2
7.	Write a PHP script to perform basic math operations using arithmetic and assignment operators.	L2	4	2
8.	Write a simple PHP script to send a text email using the mail () function.	L2	4	2
9.	Compare the GET and POST methods in servlets.	L2	5	2
10.	What is the role of a cookie in a servlet?	L1	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

Q.No	Questions	BLT	CO	Marks
11. a i	Explain the fundamental concepts of Computer Networks.	L2	1	16
Or				
b i	Outline the working principle of DNS.	L2	1	8
ii	Identify and separate the protocol, domain name, and path from a given URL: https://www.example.com/products/electronics/mobile-phones	L2	1	8
12. a i	Construct a webpage to collect student enrollment details for a new academic program. The form should include the following fields: 1. Full Name 2. Date of Birth (DOB): Include a placeholder indicating the format (DD/MM/YYYY). 3. Gender: Use radio buttons to select Male, Female, or Other. 4. Course Applied For: Use a drop-down menu to select from available courses (e.g., B.Tech, B.Sc, B.A, MBA). 5. City: Pre-fill it with "Chennai" and make it read-only. 6. Phone Number 7. Email ID 8. Terms and Conditions: Use a checkbox labeled "I agree to the	L3	2	16

terms and conditions."

Write the HTML code for the above form, ensuring appropriate validations and usability.

Or

b	i	You are tasked with designing a personal blog post layout using CSS to style the content. The page must meet the following requirements: i) Use all three types of CSS (Inline, Internal, and External): • Use Inline CSS to style the blog post title (change its color to red and underline it). • Use Internal CSS to set a global font style of Arial for the entire page's <p> tag content and a background color of light gray (#f0f0f0). • Use External CSS to style a navigation bar with a background color of navy blue (#000080), white text, and padding. ii) Develop a blog post container with the following styles as a class and use it in various posts. • Add a border of 2px solid black to the blog post container. • Include a margin of 20px to separate it from other elements. • Use padding of 15px to ensure the content inside doesn't touch the border.	L3	2	16	
13.	a	i	Illustrate the various control statements in JavaScript with an example.	L2	3	16
			Or			
	b	i	Write a regular expression to validate whether a string is a valid email address.	L2	3	8
		ii	Demonstrate the use of exception handling to validate user input in a form and alert if the input is empty or null.	L2	3	8
14.	a	i	Identify the different types of arrays supported by PHP with a suitable example.	L3	4	8
		ii	Write a PHP script to read the contents of one text file into another file.	L3	4	8
			Or			
	b	i	Develop the PHP code to fetch data from the HTML form and display user information based on login credentials.	L3	4	16
15.	a	i	Adapt the servlet life cycle methods to create a servlet that displays a welcome message.	L6	5	8
		ii	Create a servlet that uses session tracking to count how many times a user has visited the page.	L6	5	8
			Or			
	b	i	Develop an online quiz system using servlets where questions are fetched from the database and results are displayed dynamically.	L6	5	16
