Reg. No. ☐☐☐☐☐☐☐☐☐☐☐☐☐

B.E./ B. TECH.DEGREE EXAMINATIONS, MAY 2024
Sixth Semester
OE18806 – USER INTERFACE DESIGN
(Regulation 2018/2018A)

TIME:3 HOURS   MAX. MARKS: 100

COURSE OUTCOMES	STATEMENT	RBT LEVEL
CO 1	Acquire knowledge about functionalities of World Wide Web and Design an interactive web site(s)	4
CO 2	Create a web page using HTML5 tags.	6
CO 3	Select appropriate features of CSS3 to design a website.	5
CO 4	Design a client-side web application that accommodates specific requirements and constraints, based on analysis, modeling or requirements specification.	6
CO 5	Design web pages using Server-side scripting languages and establish database connectivity	6

PART- A(10x2=20Marks)
(Answer all Questions)

		CO	RBT LEVEL
1.	What is the functioning of browser cache?	1	2
2.	Distinguish between static and dynamic webpages using a real-world illustration.	1	4
3.	Write an HTML code to include image as a link in the webpage	2	3
4.	Contrast session storage and local storage in HTML5, discussing their practical applications in web development.	2	4
5.	How is inline and embeeded style sheet differentiated?	3	4
6.	Can a style sheet be imported into another style sheet? Justify it.	3	4
7.	Compare getElementById(), getElementsByClassName() and getElementsByTagName().	4	4
8.	List out various mouse events with html code.	4	2
9.	Compare Generic Servlet and HTTP Servlet	5	4
10.	Sketch the servlet life cycle.	5	2

PART- B (5x 14=70Marks)

		Marks	CO	RBT LEVEL
11. (a)	Elaborate on the functionality of SMTP (Simple Mail Transfer Protocol) along with its architecture with real time example.	(14)	1	3
	(OR)			
(b)	Illustrate the operation of the World Wide Web (WWW) in contemporary	(14)	1	3

web applications using its architectural diagram.

			Marks	CO	RBT
12. (a)	Implement an HTML5 video player with playback controls, including play, pause, volume control, and fullscreen mode.		(14)	2	5
	(OR)				
(b)	Develop an HTML5 program to utilize the geolocation API to fetch the user's current location and display it on a map.		(14)	2	5
13. (a)	Explain the advanced text effect properties in CSS3 with a relevant example.		(14)	3	4
	(OR)				
(b)	Illustrate the overview of CSS3 properties such as Border, Background, and 2D Transformation, including their syntax and example usage.		(14)	3	4
14. (a)	Analyze the document tree structure within the DOM using appropriate HTML code, focusing on the organization and nesting of elements to illustrate how the elements are structured.		(14)	4	4
	(OR)				
(b)	Design an HTML Form to collect the personal information also the JavaScript code for validating the fields.		(14)	4	4
15. (a)	Explore the servlet architecture, life cycle model, and delve into the functionalities offered by the javax.servlet package, analyzing its components and interactions within the context of web application development.		(14)	5	3
	(OR)				
(b)	Create a servlet program capable of managing both HTTP GET and POST requests, which include user.		(14)	5	5

PART- C (1x 10=10Marks)
(Q.No.16 is compulsory)

		Marks	CO	RBT LEVEL
16.	Develop a web-based Hospital management system.	(10)	5	5

****