H   Roll No. ....

TCS–693

B. TECH. (CSE) (SIXTH SEMESTER)
MID SEMESTER
EXAMINATION, March, 2024

FULL STACK WEB DEVELOPMENT

Time : 1½ Hours

Maximum Marks : 50

Note : (i) Answer all the questions by choosing any *one* of the sub-questions.

(ii) Each sub-question carries 10 marks.

1. (a) Write a program to create Html table layout as shown below : (CO1)

Colors			
Red	Green	Black	
Blue		Orange	Pink
		White	Yellow

OR

(b) Write HTML code for the following snapshot : (CO1)

┌─ Basic Information ─────────────────────────┐
│   │
│   Full Name : [_____]   │
│   │
│   Birth Date : [dd-mm-yyyy   ▽]   │
│   │
│   Gender :   ○ Male   ○ Female   │
│   │
│   Address :   [Type Here   ]   │
│   │
│   Phone Number : [_____]   │
│   │
└───┘

┌─ Extra Information ─────────────────────────┐
│   │
│   Interests : ☐ Books ☐ Movies ☐ Videogames │
│   │
│   Favorite color : [■]   │
│   │
└───┘

[Send Data] [Reset Form]

2. (a) Explain *five* differences between HTML4 and HTML5. Mention *five* advantages of HTML5 and discuss in detail how HTML5 is beneficial for search engines. (CO1)

OR

(b) What are semantic tags in HTML5 ? Explain some important semantic tags and use them to create a College webpage. (CO1)

3. (a) Write HTML code for creating a table containing Name, Age, Mobile Number, and Profile Pic of 3 students. Assume one of the students has 2 mobile numbers. Also, the Profile Pic column must display a small image of 30*30 pixels which on clicking must open the same image in a new browser tab. Create the table with borders, appropriate spacing within and between the cells and the table must have a caption as well. (CO2)

P. T. O.

OR

(b) Discuss different ways of inserting CSS code in your webpage along with appropriate code. Explain how you can modify a text size, color and font using CSS and put a horizontally-repeating background image behind the text with the help of appropriate code. (CO2)

4. (a) (i) Write a JavaScript program to 'wish a user' at different hours of a day.

(ii) Design a webpage that will self-modify itself after every 1 minute.

(CO2)

OR

(b) Make a registration form in HTML and add JavaScript to validate the following fields in the form : (CO2)

(i) Name (should contain alphabets and the length should not be less than 6 characters)

(ii) Password (should contain at least one number, exactly one special character and should start with a capital letter and the length should not be less than 6 characters)

(iii) E-mail (should not contain invalid address)

5. (a) (i) Create a webpage to show all hyperlinks with the following specification : (CO1)

Default color is Pink.

Active color is Blue.

Visited color is Green.

On hover color is Yellow.

Hyperlink should be without underline.

P. T. O.

(ii) Explain the following terms :

    (1) opacity in css

    (2) meta tag

    (3) form tag

OR

(b) (i) Explain CSS Box model in detail with a suitable example.   (CO2)

(ii) Create a list as given in the diagram below using HTML :

Computer System

1. Input Devices

    (i) Keyboard

    (ii) Mouse

    (iii) Joystick

    (iv) Scanner

        (A) Flat Bed Scanner

        (B) Hand held Scanner

2. Output Devices

    (i) Monitor

        (A) LCD

        (B) CRT

    (ii) Printer

        (A) Impact Printer

        (B) Non-Impact Printer