

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

P. T. O.

(2)

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OR

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

Basic Information	
Full Name :	<input type="text"/>
Birth Date :	<input type="text" value="dd-mm-yyyy"/> <input type="button" value="v"/>
Gender :	<input type="radio"/> Male <input type="radio"/> Female
Address :	<input type="text" value="Type Here"/>
Phone Number :	<input type="text"/>

Extra Information	
Interests :	<input type="checkbox"/> Books <input type="checkbox"/> Movies <input type="checkbox"/> Videogames
Favorite color :	<input type="text" value="#"/>

(3)

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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.

(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