Reg. No. :

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2025

Open Elective

Computer Science Engineering

R21UCS972-WEB TECHNOLOGIES AND APPLICATIONS

(Common To All Branches)

(Regulations R2021)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1.	What attribute is used in the <a> tag to specify the destination of a hyperlink?	CO1- U
2.	What are the advantages of external Style Sheet?	CO1- U
3.	What is CSS? Give the syntax of CSS?	CO1- U
4.	Write an Internal style sheet to change the background color of a Webpage to Red.	CO2- App
5.	What is JavaScript?	CO1- U
6.	How to validate email in JavaScript?	CO1- U
7.	Define virtual function?	CO 1- U
8.	Explain the difference between Django's MVT and MVC architecture.	CO 1- U
9.	Differentiate front End and Back End framework.	CO 1- U
10.	Why do we use tools like Heroku/AWS/Docker for deployement.	CO 1- U

PART – B (5 x 16= 80 Marks)

11. (a) What are the various types of Lists available in HTML? Explain   CO1 – U   (16)
        with example.

Or

    (b) Describe HTML Forms with example   CO1 – U   (16)

12. (a) Create a HTML code for a simple webpage and style it using external CSS file. Show how the HTML and CSS are linked. — CO2- App — (16)

Or

(b) Design an interactive gallery where selecting an image displays it in full size with options to view it in color or grayscale. Use HTML and CSS to implement the effect." — CO2- App — (16)

13. (a) List and explain the commonly used JavaScript objects like Date, Math, String, Array, and RegExp. Demonstrate each with a code example." — CO1 - U — (16)

Or

(b) Explain in function parameter? Create the button named "say hello" if user click the button the user name, age, year must display. — CO1 - U — (16)

14. (a) "Create a Python program with separate functions to calculate Simple Interest, Compound Interest, Area of Square, and Area of Rectangle. Demonstrate each function with sample inputs." — CO2- App — (16)

Or

(b) Write a code to develop a To-Do Web App using django. — CO2- App — (16)

15. (a) What is flask? What is use of the flask? Explain the ways to install flask? — CO1- U — (16)

Or

(b) Write about various web application frameworks in detail? — CO1- U — (16)

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