UG/Integrated Even Semester Examination, 2025

COMPUTER SCIENCE

(2nd Semester)

Course No.: MCS-554 (IDC)

(Internet Technology)

Full Marks: 70

Pass Marks: 28

Time: 3 hours

The figures in the right margin indicate full marks for the question. Answer any five questions selecting one from each unit.

UNIT-I

1. (a) Define a webpage. Discuss the different types of websites and their purposes with suitable examples. 2+5=7

   (b) What is Domain Name System (DNS)? Describe the various Internet services and their applications in daily life. 2+5=7

2. (a) Define Web Design and Web Development. Highlight the major differences between them. 3+4=7

   (b) How does a web application function? Discuss the role of scripting language in enhancing web applications. 3+4=7

UNIT-II

3. (a) Discuss the semantic elements introduced in HTML and their benefits in web design. 5

(b) Write an HTML code to create a web page that contains a form with different input types. 5

(c) Describe the use of multimedia tags in HTML5 with practical examples. 4

4. (a) Explain how tables are created in HTML5 and discuss attributes for formatting tables. 6

(b) How are images embedded in HTML documents? Explain image attributes. 4

(c) Writ HTML code to create a registration form using form controls. 4

UNIT-III

5. (a) Describe the CSS box model with a neat diagram and explanation. 5

(b) Define CSS. Write the syntax of CSS and explain the different types of CSS with examples. 5

(c) Compare CSS2 and CSS3 with examples. 4

6. (a) Explain the use of gradients and shadows in enhancing web aesthetics using CSS3 with example. 5

(b) How are background images managed using CSS? Explain with examples. 5

(c) Write a CSS code to design a styled form with hover effects with example. 4

UNIT-IV

7. (a) What is client-side scripting? Discuss the advantages of using Java Script for client-side validation. 2+3=5

(b) Java Script code for a simple calculator. 5

(c) Write a Java Script code to check if a number is even or odd using if-ele. 4

8. (a) Explain the types of dialog boxes available in Java Script. 4

(b) How are comments used in Java Script? What are their types? 4

(c) Explain the purpose of loops in Java Script and illustrate the use of for, while, and do-while loops. 6

UNIT-V

9. (a) Explain the Java Script DOM hierarchy with a labelled diagram. 5

(b) Write Java Script code to validate a user login form. 5

(c) How can you access and modify HTML elements using the DOM? 4

10. (a) What are the events in DHTML? Explain with examples. 6

(b) Define and demonstrate the use of event listeners in Java Script. 4

(c) Write a Java Scrpt code to display a list of submitted form values on the same page. 4