



ST. FRANCIS DE SALES COLLEGE

A FRANSALIAN INSTITUTE OF HIGHER EDUCATION **AUTONOMOUS**

NAAC A GRADE • AFFILIATED TO BANGALORE UNIVERSITY • AICTE APPROVED • 2(F) & 12 (B) RECOGNITION OF UGC • ISO 9001:2015 CERTIFIED
📍 Electronics City P.O., Bengaluru - 560 100, Karnataka, INDIA ☎ (+91) 8088140679 ✉ pro@sfscollege.in 🌐 www.sfscollege.in

END SEMESTER EXAMINATION –NOV/DEC 2025

COMPUTER SCIENCE – III SEMESTER BCA

25BCA36.3: FULL STACK DEVELOPMENT - WEB

PROGRAMMING I

Time: 1 Hour 30 Minutes

Max. Marks: 40

Instruction: *Answer should be written completely in English.*

SECTION - A

Answer any **TWO** questions. Each question carries **TWO** marks.

(2X2=4)

1. What is the basic structure of an HTML document?
2. What is Bootstrap, and how does it aid in web development?
3. Analyse how JSON is used for API communication in web applications, citing specific examples of popular APIs that utilize JSON.
4. What is the purpose of an event handler in JavaScript?

SECTION - B

Answer any **FOUR** questions. Each question carries **FIVE** marks.

(4X5=20)

5. Describe how to create a navigation bar (navbar) using HTML and CSS. Explain the role of the <nav> tag and CSS styles in navbar design.
6. What is responsive web design, and how does Bootstrap help achieve it?
7. Analyze the role of DNS in resolving domain names to IP addresses.
8. Write JavaScript code that displays the current date and time on a web page.
9. Explain the role and importance of XSLT (Extensible Stylesheet Language Transformations) in working with XML documents.
10. What is AJAX, and how is it used in web development?

SECTION - C

Answer any **TWO** questions. Each question carries **EIGHT** marks.

(2X8=16)

11. Describe the different types of form controls in HTML, including text inputs, checkboxes, radio buttons, and drop-down menus. Explain how to create each type of control and provide examples.
12. Write a CSS code snippet to style a paragraph element with a font size of 18px and a color of blue.
13. Create a JavaScript function that manipulates CSS styles to animate an HTML element on a web page.
14. Design an XSLT stylesheet to transform an XML document into a formatted PDF report, including headers, footers, and graphics.

