QP Code: D153295	Total Pages: 1	Name:
		Register No.:

FIFTH SEMESTER (CUFYUGP) DEGREE EXAMINATION, NOVEMBER 2026

COMPUTER SCIENCE

CSC5CJ303 – FULL STACK WEB DEVELOPMENT

2024 Admission onwards

Maximum Time: 2 | **Maximum Marks: 70**

Section A

All Questions can be answered. Each Question carries 3 marks (Ceiling: 24 Marks)

1	Explain the purpose of the alt attribute in the <img> tag.
2	What is responsive web design? Mention one technique used to achieve it.
3	Differentiate between inline and block-level elements with examples.
4	Write a JavaScript function that takes two numbers as parameters and returns their sum.
5	Explain the use of arrays and objects in JavaScript with examples.
6	Explain the purpose of functions in JavaScript code.
7	Define a React component and explain its role in building user interfaces.
8	Explain the role of Redux in a React application.
9	How can MongoDB be accessed from a Node.js application?
10	What is the role of a MongoDB driver?

Section B

All Questions can be answered. Each Question carries 6 marks (Ceiling: 36 Marks)

11	Explain CSS selectors, properties, values, colors, and backgrounds with examples.
12	Write HTML code to create a responsive webpage with header, navigation, main content, and footer using semantic tags. Add basic CSS styling.
13	Explain Node.js console and command utilities with suitable examples.
14	Explain JavaScript syntax, variables, operators, data types, and type conversion with examples.
15	Explain unit testing in React applications and mention one testing library used.
16	Explain the difference between state and props in React components with examples.
17	Explain the services offered by MongoDB.
18	Explain data migration strategies into MongoDB.

Section C

Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)

19	Develop a complete Node.js and Express.js application for student record management. Explain project setup, modules, routing, middleware, database access, and CRUD operations.
20	Write the HTML code to create a student registration form containing fields for name, email, password, gender (radio buttons), course (dropdown), hobbies (checkboxes), date of birth, and a submit button with basic validation.