

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI EXAMINATION – SUMMER 2025

Subject Code:3161611

Date:30-05-2025

Subject Name:Advanced Web Programming

Time:10:30 AM TO 01:00 PM

Total Marks:70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) What is DOM? State the usefulness of DOM in JavaScript.	03
	(b) Enlist and explain the types of CSS.	04
	(c) What is MVC? Explain how MVC can be used with Angular JS application with suitable example.	07
Q.2	(a) State the advantages of Angular JS.	03
	(b) Explain the usage of the following directives. 1) ng-cloak 2) ng-blur 3) ng-include 4) ng-repeat	04
	(c) Explain Angular JS routing with suitable example.	07
	OR	
	(c) Write Angular JS code to read students' details available in (JSON format) Students.php file using \$http service, and print the details in tabular format.	07
Q.3	(a) Write features of Node JS.	03
	(b) Explain the usefulness of Console	04
	(c) Write Node JS code to read and print the values of query string variables of the following URL. http://localhost:8081?Name=Rajesh&Mobile=8877665544	07
	OR	
Q.3	(a) Explain various IP related methods present in Networking module of Node JS.	03
	(b) What is NPM? State various commands to manage packages through NPM.	04
	(c) Write Node JS code that will allow a user to browse a file and upload it in the 'Uploads' directory on the localhost.	07
Q.4	(a) Enlist and explain global variables available in Node JS.	03
	(b) Explain usefulness of console object with suitable example.	04
	(c) Discuss various methods available in File System module.	07
	OR	
Q.4	(a) Explain the usefulness of callback function with suitable example.	03
	(b) Explain global timer functions available in Node JS.	04
	(c) What is EventEmitter? Explain any three methods of EventEmitter.	07
Q.5	(a) What is Mongo DB? State the advantages of using Mongo DB.	03
	(b) Differentiate between Document Database and Relational Database.	04
	(c) Differentiate between findOneAndReplace() and findOneAndUpdate() methods with suitable example.	07

OR

- Q.5**
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|------------|---|-----------|
| (a) | Write Node JS code to create a Collection in “MyDatabase”. | 03 |
| (b) | Write Node JS code to insert many documents in the “Student” collection.
“Student” collection contains name and branch of student. | 04 |
| (c) | Write a note on : Datatypes supported in Mongo DB. | 07 |
