Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI(NEW) EXAMINATION - WINTER 2022

Subj	ect (Code:3161611 Date:17-12-202	22
•	e:02	Name:Advanced Web Programming :30 PM TO 05:00 PM Total Marks:7	'0
iiisti u	1. 2. 3. 4.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Simple and non-programmable scientific calculators are allowed.	
Q.1	(a) (b) (c)	What is CSS? Explain the different types of CSS. Write a JavaScript program to validate an Email address. What is SPA (Single page application) in AngularJS? Explain the advantages of AngularJS.	03 04 07
Q.2	(a) (b) (c) (c)	What are directives in AngularJS? Explain the data binding process in AngularJS. Explain controller in AngularJS with example. OR Write a syntax to send sample HTTP POST request in AngualrJS?	03 04 07
Q.3	(a) (b) (c)	How can you integrate AngularJS with HTML?	03 04 07
Q.3	(a) (b) (c)	Explain AngularJS MVC Architecture	03 04 07
Q.4	(a) (b) (c)	What is Node.js? Explain the features of Node.js.	03 04 07
Q.4	(a) (b) (c)	OR How to create buffer in Node.js? What are the core modules of Node.js? How to create a simple server in Node.js that returns Hello World?	03 04 07
Q.5	(a) (b) (c)	Explain usage of NODE_ENV? What is REPL? What purpose it is used for? Write code to perform Insert and find operations on Student database using Node.js and MongoDB.	03 04 07
Q.5	(a) (b) (c)	OR Explain an event-loop in Node.js. What is an error-first callback? Write code to perform update and delete operations on Employee database using Node.js and MongoDB.	03 04 07
