

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2023****Subject Code:3161611****Date:13-12-2023****Subject Name: Advanced Web Programming****Time:02:30 PM TO 05:00 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.

- Q.1** (a) List out the basic features of MongoDB. **03**
 (b) Discuss advantageous and disadvantageous of JavaScript. **04**
 (c) What is CSS? Explain different types of CSS. List out advantages and disadvantages of CSS. **07**
- Q.2** (a) Classify the basic selectors with example in CSS. **03**
 (b) Differentiate between Angular JS and Node JS. **04**
 (c) What does DOM mean? What are the different ways to get an element from DOM? **07**
- OR**
- (c) Explain Node JS streams in detail. **07**
- Q.3** (a) Differentiate between Client-Side Scripting and Server-Side Scripting **03**
 (b) Explain REPL in context of Node. Show the difference of using var and not using var in REPL **04**
 (c) Explain use of ng-controller directive in context of Angular JS with suitable example. **07**
- OR**
- Q.3** (a) Define following AngularJS concepts **03**
 i. ng-app
 ii. ng-model
 iii. ng-bind
 (b) Explain Angular JS Module with syntax. **04**
 (c) Explain Node JS event-driven programming with suitable example. **07**
- Q.4** (a) Explain any three Angular JS services in brief. **03**
 (b) Justify “Node.js Single-threaded”. **04**
 (c) Show how to insert, find and delete data or document in collection using NodeJS-MongoDB. **07**
- OR**
- Q.4** (a) What is Bootstrap? Give applications of it. **03**
 (b) Explain two types of data model provided by MongoDB. **04**
 (c) Demonstrate the use of ng-route directive with suitable example. **07**
- Q.5** (a) What do you mean by Asynchronous API? **03**
 (b) Write JavaScript Program to Check whether the given no is Prime or not. **04**
 (c) Explain Node JS buffers in detail. **07**
- OR**
- Q.5** (a) What are AngularJS expressions? **03**
 (b) Demonstrate the two way data binding method with suitable example. **04**
 (c) Explain How will you read a file using Node and How will you create a directory? **07**
