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Name of Method}

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END TERM EXAMINATION

SECOND SEMESTER [MCA] JULY 2023

Paper Code: MCA-114Subject: Full Stack DevelopmentTime: 3 HoursMaximum Marks: 75

Note: Attempt five questions in all including question Q.No.1 which is compulsory. Select one question from each unit.

(2.5x10=25)Q1 Answer all the following questions briefly:-Describe the role of Package. JSON in NodeJS. You are required to develop a module in ES6 to return the sum of b) any two given numbers. Write the code to develop module in ES6. Explain the uses of pipes in angular. c) Explain the concept of state management in React. d) Give a brief overview of Express Framework. e) With code, explain the simplicity of two way data binding in f) angular application. With example, explain the ways of implementing form validations g) in Angular. Analyze and brief a real scenario to use NoSQL database over h) RDBMS. Explain the significance of JSON format. 1) Write and compare the code for a server in NodeJS and ExpressJS. j) **UNIT-I** Define React. Highlight the obstacles and React Developer tools in (6.5) Q2 a) (6) **b**) Discuss ES6 Classes and stateless functional components. Elaborate on Constructing Elements with Data with example. (6.5)Q3 a) Develop a react component using the pure React code. The output (6) b) must be in form of a table (No DB is required). The table must have the following details: Sr.No., Name, Enrollment Number, Programme, Semester UNIT-II Discuss REST API Design. Illustrate Identifier Design with URIs (6.5)Q4 a) briefly. (6)Develop a module to handle the get, post, put, patch methods from b) the 5 004 clients. for every type of request the module responds to the client the name of the method in following format: {method:

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b)

MongoDB.

Classify React Router and outline the incorporation process in (6.5) Q5 a) detail. √ b) Propose your understanding of JSON along with its syntax and an (6) appropriate example. UNIT-III Illustrate different types of data binding in angular with pseudo (6.5) Q6 a) codes of each. Given a student data API. Develop angular UI retrieving data using (6)b) HTTP to display. Compare Synchronous and Asynchronous file system. Justify their (6.5) Q7 a) application. (6)**b**) Explain templates in Angular. **UNIT-IV** Differentiate between NoSQL and RDBMS database. Elaborate the (6.5) Q8 a) (6)**b**) Ilustrate the use of Query objects in MongoDB. (6)Imagine a database structure for student management system and Q9 a) write a program for connecting to MongoDB from Node.js for displaying records of students.

With suitable examples, explain sorting and limiting result sets in (6.5)

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