

Bharati Vidyapeeth's
Institute of Computer Applications and Management (BVICAM)
A-4, Paschim Vihar, New Delhi-63
SECOND SEMESTER [MCA] MODEL QUESTION PAPER

Paper Code: MCA-114	Subject: Full Stack Development
Time: 3 Hours	Maximum Marks: 60
Note: Attempt FIVE questions in all. Question No. 1 is compulsory and attempt one question from each unit.	

1. Answer all the following questions briefly: - 2 × 10 = 20
 - (a) Can you assign an anonymous function to a variable and pass it as an argument to another function? CO1
 - (b) Illustrate the difference React and Angular? CO2
 - (c) Determine the purpose of using AJAX when java script is performing the same task. CO2
 - (d) Discuss the features of Mongo-DB. CO3
 - (e) Discuss the purpose of getting react famous when there are other languages already available CO1
 - (f) Describe the Interpolation and property binding in angular. CO3
 - (g) Compare ECMA 6 with ECMA 5. CO4
 - (h) Can you explain the difference between a collection and a document in MongoDB? CO4
 - (i) Differentiate between Flux and Redux CO3
 - (j) Write a command to create a database and collection in MongoDB. CO3

UNIT - I

2. (a) How do you handle server-side rendering in a React application? 5 CO1
- (b) Differentiate between a functional component and a class component in React with example. 5 CO1
3. (a) Differentiate between a) states and props 5 CO1
b) a static component and a dynamic component in React.
- (b) Explain the concept of a Sagas in Redux. 5 CO1

UNIT - II

4. (a) Explain about controlled and uncontrolled components? 5 CO2
- (b) Illustrate the working of REST API Design with HTTP. 5 CO2
5. (a) Develop a single page application using react router. 5 CO2
- (b) List down the components of redux. Explain the term "Single source of truth"? 5 CO2

UNIT - III

6. (a) Demonstrate the advantage of Model View Controller (MVC). 5 CO3

- (b) Discuss 2-way data binding? Explain with example 2-way data binding with ng-model 5 CO3
7. (a) How do you handle events in Angular form 5 CO3
- (b) Illustrate the purpose of using “ngfor”, with example. 5 CO3

UNIT - IV

8. (a) Discuss the types of No-SQL databases 5 CO4
- (b) Explain the scenarios to manipulate mongoDB document from Node.js. 5 CO4
9. (a) Discuss BSON in mongo DB. Explain the purpose of using BSON over JSON 5 CO4
- (b) While creating schema in Mongo-DB what are the points need to be taken in consideration. 5 CO4