

2211000105010002  
B.C.A. T.Y (Sem – V)  
Examination October-2023  
Advanced Web Designing

Seat No:

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[Time: Three hours]

[Max. marks: 70]

Instructions:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Provide proper example as and when require.
- 4) Mention your options clearly.

Student's Signature	
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**Q.1 Answer the following questions in short: (Any Seven)**

14

- (1) What is a document in MongoDB? Explain with example.
- (2) What are the data types in MongoDB? List out any three.
- (3) Which method is used to add data in MongoDB? State the difference between insertOne and insertMany.
- (4) What is the full form of JSX? Why JSX is used with React?
- (5) What is MVC?
- (6) What is create-react-app? why it is used?
- (7) What is props in React JS?
- (8) What is data binding in Angular JS?
- (9) What is currency filter in Angular JS?
- (10) What is the use of \$routeProvider service of ngRoute?

**Q.2 Answer the following questions: (Any TWO)**

14

- (1) What is MongoDB? What are the advantages of MongoDB? Differentiate NoSQL and SQL.
- (2) What is component in React? How can you embed two or more components into one? Explain with a suitable code.
- (3) Explain the concept of Form and Form validation in Angular JS. Write a suitable code for the same.

**Q.3 (a) Attempt the following: (Any Two)**

10

- (1) Explain following MongoDB Query Document operations with syntax and example:  
1. find() 2. Pretty() 3. findOne() 4. and keyword 5. or keyword
- (2) Explain useRef, use Reducer hooks with example.
- (3) What are services in Angular JS? Explain with an example.

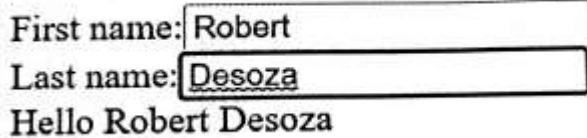
(b) what are Angular JS directives? Write on ng-model and ng-repeat directives. **04**

**Q.4 Write a command/query for the following MongoDB operations: (Any Seven) 14**

- (1) Create Database "University"
- (2) Create Collection named "private"
- (3) Create Collection named "central\_uni"
- (4) Insert at least 2 documents in the collection "private" and in collection "central\_uni"
- (5) Delete the private university having name "C.J.Shah"
- (6) Find central\_uni university named "J.R.Roy"
- (7) Update the "contact no" of central\_uni university where c\_id is "101"
- (8) Delete all private university from "private" collection who have category under the "fake" list

**OR**

Write an angular JS code to display FirstName and LastName entered by the user into the respective textboxes and display output in following form: **14**



First name: Robert  
Last name: Desoza  
Hello Robert Desoza

**Q.5 Write a short note on following: (Any Two) 14**

- (1) Operators in MongoDB
- (2) React JS Events
- (3) SPA (Single Page Application) in Angular JS
- (4) Angular JS Expressions and controllers