


RAN-2211000105010002

T.Y. BC.A (Sem. - 5) Examination October - 2025
(Paper - 501-01) Advanced Web Designing (Old)

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
 Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

- Q.1. Answer the following questions in short. (Any 7) 14**
1. What is MongoDB? List out any 4 features of MongoDB.
 2. What is the full form of JSX? Why JSX is used with React?
 3. Explain ng-hide and ng-show directives of Angular JS.
 4. What is the purpose of the DB command in MongoDB? If we don't select any database then what will be the default database in MongoDB?
 5. What are props in React? Differentiate between state and props.
 6. How can you integrate Angular JS with HTML?
 7. Explain with example Angular JS expression.
 8. List out MongoDB data types.
 9. How do we conditionally render statements is the JSX part of React component?
- Q.2. Answer the following questions. (Any 2) 14**
1. Explain MongoDB operators with example.
 2. What is React JS? Explain various features of it.
 3. Explain useState and useMemo hooks with example.
- Q.3. Attempt the following questions. (Any 2) 14**
1. What are expressions in Angular JS? Provide some examples.
 2. Explain ng-model, ng-init and ng-repeat directives of Angular JS with example.
 3. Explain form validations using Angular JS.
- Q.4. (A) Write MongoDB commands to solve following queries. (Any 5) 10**
1. Create a database named eCommerce and also create 'products' collection in it. Consider fields like (id, name, category, brand, price, stock)
 2. Insert 5 documents in the products collection.
 3. Display all 'Electronics' products having stock 20.
 4. List all 'Apple' products with price less than 80,000.
 5. Update price of the product with id '101' to 9,999.
 6. Increase stock of the 'Laptop' product by '10'.
 7. Remove all 'sports' products of the 'Puma' brand.
- Q.4. (B) Create a student registration form that accepts Name, Email, Semester and Address of the student. Provide validations on these form fields using Angular JS. 4**

OR

- Q.4. (B)** Create a student registration form that accepts Name, Email, Semester and Address of the student. Handle this form data using React JS and on submit display registration information to the user in the alert box. **4**
- Q.5. Write a short note on following (Any 2)** **14**
1. React Event Handling
 2. Angular JS Filters
 3. MongoDB Operators
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