

2211000105010002
BCA (SEM-V)
Examination June-2023
Advanced Web Design

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

Q.1 Answer the following questions in short: (Any Seven)

[14]

- (1) In which format MongoDB represents document structure? Explain with example.
- (2) Is MongoDB better than other SQL databases? If yes, then how?
- (3) Explain React List.
- (4) What are components in React JS? List out them.
- (5) List out advantages of React.
- (6) How to build custom hook?
- (7) What is Angular JS? List out any two features of it.
- (8) What are directives? Give name of most commonly used directives in Angular JS.
- (9) What is order by filter in Angular JS?
- (10) What is module in Angular JS? Write syntax to create a module.

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

[14]

- (1) What is MongoDB? What are the advantages of MongoDB? Explain Document and Collection with an example.
- (2) Explain the concept of Forms and Form validation in Angular JS using suitable example.
- (3) What is an event in React? How do you create it? Explain event with an example.

Q.3 Do as directed:

[14]

(a) Attempt the following: (Any Two)

[10]

- (1) Explain various insert operations of MongoDB.
- (2) Explain useState, useContext hooks with example.
- (3) What are services in Angular JS? Explain with an example.

(b) what do you mean by expressions in Angular JS?

[04]

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

- (1) Create Database "movie"
- (2) Create Collection named "film"
- (3) Create Collection named "actor"
- (4) Insert at least 2 documents in the collection film and in collection actor
- (5) Delete the film "XYZ"
- (6) Delete an actor named "ABC"
- (7) Update the actor's address where actor id is "101"
- (8) Delete all actors from an "actor" collection who have age greater than "50"

OR

Create a Simple counter using React.js which increments or decrements count dynamically on-screen as the user clicks on buttons. Use following steps

1. Prepare two HTML buttons, one for increment value and other for decrement value.
2. If we click on increment button then value will be increased by 1...such as 1,2,3,4.... And if we click on decrement button then value will be decreased by 1.....such as 4,3,2,1 and so on..

Q.5 Write a short note on the following (Any Two) **[14]**

- (1) MongoDB datatypes with its syntax and example.
- (2) Hooks in React JS
- (3) MVC Architecture
- (4) Filters in Angular JS