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# BRAINWARE UNIVERSITY

Library
Brainware University
398, Ramkrishnapur Road, Barasat
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**Term End Examination 2025-2026**
**Programme – BCA-Hons-2023**
**Course Name – Full-stack Development-II**
**Course Code - BCA57116 (T)**
**( Semester V )**

**Full Marks : 40** **Time : 2:0 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

## Group-A

(Multiple Choice Type Question) 1 x 10=10

1. *Choose the correct alternative from the following :*

(i) Select the correct use of filter() in a React component.

a) data.filter(item.active) b) filter.data(item = > item)
c) data.filter(item = > item.active) d) data.map(item = > item.active === true)

(ii) Identify the correct JSX syntax for passing a name prop from a parent to a child component.

a) < Child props={value} / > b) < Child value={props} >
c) < Child value={props.value} / > d) < Child name="value" / >

(iii) Select the correct sequence of steps when fetching data with fetch() in React.

a) Fetch → Set Timeout → Console Log b) Fetch → Convert to JSON → Use Data
c) Fetch → Use Data → Convert to JSON d) Use Data → Fetch → Console Log

(iv) Select the correct arrow function syntax for an event handler from the given options.

a) handleClick() => {} b) () => { console.log("Clicked") }
c) = () {} d) onClick = function => {}

(v) Choose the purpose of JSON.stringify() when used in a fetch request.

a) Parses JSON b) Converts JS object to string
c) Minifies HTML d) Compresses data

(vi) Choose the correct way to use routing in a React app:

a) < router> < /router> b) < BrowserRouter> < Routes>... < /Routes> < /BrowserRouter>
c) < RouteRouter /> d) < RouterMap />

(vii) Choose the correct AngularJS expression that represents a valid numeric operation.

a) {{ 3 + 5 }} b) {3+5}
c) < %= 3+5 %> d) [[3+5]]

(viii) Choose the correct output of the AngularJS expression {{ 10 / 2 }}

a) 2 b) 5
c) 0.5 d) 45698

(ix) Choose the correct line to sketch a basic API endpoint in PHP:

a) function api() { return; }
b) header('Content-Type: application/json');
c) print("API")
d) open('api.php')

(x) Choose the correct way to define a custom filter in AngularJS.

a) app.directive()
b) app.filter('name', function() {})
c) app.ngFilter()
d) scope.filter()

## Group-B

(Short Answer Type Questions) 3 x 5=15

2. Illustrate how state updates enable real-time form validation. (3)
3. Describe how to create a simple API using PHP and MySQL. (3)
4. Write a React code snippet to send form data to a server using fetch POST. (3)
5. Develop a contact form that uses local state and alerts the submitted values. (3)
6. Judge the use of data binding in React compared to traditional JavaScript methods. (3)

**OR**

Assess the benefits of using PHP and MySQL for backend API creation in a React project. (3)

## Group-C

(Long Answer Type Questions) 5 x 3=15

7. Create a basic React form with controlled components. (5)
8. Apply the concept of lifecycle (via useEffect) to fetch data once a component is mounted. (5)
9. Create a working example of dependency injection in AngularJS using multiple services. (5)

**OR**

Create a custom filter in AngularJS that hides sensitive parts of a string like an email. (5)

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