Started on	Wednesday, 28 May 2025, 12:51 PM
State	Finished
Completed on	Wednesday, 28 May 2025, 12:57 PM
Time taken	5 mins 42 secs
Marks	15.00/15.00
Grade	**100.00** out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

How does `useEffect()` help in components like `ProfileDisplay`?

- ⦿ a. It performs side effects like API calls when the component mounts
- ○ b. It controls component layout
- ○ c. It initializes styles
- ○ d. It prevents form submission

Question 2

Complete

Mark 1.00 out of 1.00

How does the Context API help in managing state across nested components?

- ○ a. It removes the need for state
- ○ b. It copies props from one component to another
- ⦿ c. It provides a global store that can be accessed without prop drilling
- ○ d. It handles server-side rendering

Question 3

Complete

Mark 1.00 out of 1.00

In a multi-step form, why would one prefer `useReducer` over multiple `useState` hooks?

- ○ a. It makes the form immutable
- ○ b. It reduces memory usage
- ○ c. It prevents rendering
- ⦿ d. It groups all state logic into one reducer

Question 4

Complete

Mark 1.00 out of 1.00

In Context API, what does the `value={{ state, dispatch }}` passed to `Provider` mean?

- a.   It creates a new context
- ● b.   It shares the state and dispatcher with nested components
- c.   It updates the context
- d.   It triggers the reducer

Question 5

Complete

Mark 1.00 out of 1.00

What does `dispatch` do in `const [state, dispatch] = useReducer(...)`?

- ● a.   Triggers the reducer with an action
- b.   Adds CSS classes
- c.   Renders a component
- d.   Sets new state directly

Question 6

Complete

Mark 1.00 out of 1.00

What does a reducer function typically return in React?

- a.   Side effects
- ● b.   A new state object based on the previous state and action
- c.   HTML template
- d.   JSX output

Question 7

Complete

Mark 1.00 out of 1.00

What does the following hook do? const [state, dispatch] = useReducer(formReducer, initialState);

- a.   Fetches static files
- b.   Makes async requests
- ● c.   Returns a pair for managing state via a reducer
- d.   Updates form UI

Question 8

Complete

Mark 1.00 out of 1.00

What does the following Material UI code render? <Button variant="contained" color="primary">Next</Button>

- a. A filled primary-colored button
- b. A button with hover effects only
- c. A plain button
- d. A button with a primary-colored border

Question 9

Complete

Mark 1.00 out of 1.00

What does this code in the backend do? const profile = new Profile(req.body); await profile.save();

- a. It deletes a user
- b. It reads from the database
- c. It inserts a new profile document into MongoDB
- d. It updates profile by ID

Question 10

Complete

Mark 1.00 out of 1.00

What happens if you call `setFormData({ email: 'test@example.com' })` without spreading?

- a. No update occurs
- b. Only email is updated; all other fields are lost
- c. It resets formData
- d. All fields are merged

Question 11

Complete

Mark 1.00 out of 1.00

What is a benefit of using `Container maxWidth="sm"` in Material UI?

- a. It disables responsiveness
- b. It restricts content width and centers it
- c. It hides overflow content
- d. It forces full width layout

Question 12

Complete

Mark 1.00 out of 1.00

What is the advantage of using a single `formData` object in a form?

- ○ a. It helps with server-side rendering
- ○ b. It disables all fields
- ○ c. It prevents validation
- ◉ d. It centralizes form state

Question 13

Complete

Mark 1.00 out of 1.00

What is the main benefit of using `useState` in a React component?

- ○ a. It allows CSS styling
- ◉ b. It lets you store local state
- ○ c. It allows DOM manipulation
- ○ d. It defines a component

Question 14

Complete

Mark 1.00 out of 1.00

What is the purpose of `useNavigate()` in a React Router-based app?

- ○ a. Accesses current route parameters
- ○ b. Creates a new route
- ○ c. Triggers a modal
- ◉ d. Programmatically redirects to another route

Question 15

Complete

Mark 1.00 out of 1.00

Why is `.map()` used in this code? profile.interests.map((item, index) => <li key={index}>{item})

- ◉ a. To render each interest as a list item
- ○ b. To modify the state
- ○ c. To transform backend data
- ○ d. To merge arrays