Vue.js MCQs with answers

Topics : Vue
Written on January 11, 2024

1. **What is the purpose of the `v-show` directive in Vue.js?**

   - A. Toggles the visibility of an element based on a condition
   - B. Displays an element conditionally
   - C. Binds a class dynamically
   - D. Creates a sliding transition effect

   Answer: A. Toggles the visibility of an element based on a condition

2. **In Vue.js, what is the purpose of the `nextTick` function?**

   - A. Delays the execution of a function until the next event loop cycle
   - B. Forces an immediate re-render of the component
   - C. Allows for asynchronous execution of methods
   - D. Initializes the component before it is mounted

   Answer: A. Delays the execution of a function until the next event loop cycle

3. **How can you dynamically bind styles to an element based on a condition in Vue.js?**

   - A. Using `v-style`
   - B. Using `v-bind` with a style object
   - C. Using `v-class`
   - D. Using `v-if` with inline styles

   Answer: B. Using `v-bind` with a style object

4. **What is the role of the `.number` modifier in Vue.js when using `v-model`?**

   - A. Converts the input value to a string
   - B. Forces the input to accept only numeric values
   - C. Converts the input value to a number
   - D. Rounds the input value to the nearest integer

   Answer: C. Converts the input value to a number

5. **What is the purpose of the `.prevent` modifier in Vue.js when handling form submissions?**

   - A. Stops the default form submission behavior
   - B. Delays the form submission until a later event
   - C. Forces the form to submit immediately
   - D. Prevents the form from being reset

   Answer: A. Stops the default form submission behavior

6. **How does Vue.js handle animations and transitions?**

   - A. Using the `v-animate` directive
   - B. Using CSS classes and the `transition` component
   - C. Using the `v-transition` directive
   - D. Automatically with no need for additional configuration

   Answer: B. Using CSS classes and the `transition` component

7. **What is the purpose of the `v-pre` directive in Vue.js?**

   - A. Exempts an element from being compiled
   - B. Skips compilation for the element and its children
   - C. Marks an element as private
   - D. Prevents an element from being displayed

   Answer: B. Skips compilation for the element and its children

8. **How can you prevent a Vue.js component from being rendered until its data is ready?**

   - A. Using the `v-show` directive
   - B. Using the `v-if` directive
   - C. Using the `beforeMount` lifecycle hook
   - D. Using the `v-pre` directive

   Answer: B. Using the `v-if` directive

9. **What is the significance of the `v-slot` directive in Vue.js?**

   - A. Defines a custom directive
   - B. Marks a slot as required
   - C. Specifies the position of a slot in the template
   - D. Used for named slots in component composition

   Answer: D. Used for named slots in component composition

10. **In Vue.js, what is the purpose of the `computed` property?**

    - A. Stores data that can be modified by the user

- B. Performs asynchronous operations
  - C. Calculates derived data based on reactive data
  - D. Manages the state of a component

Answer: C. Calculates derived data based on reactive data

11. **How can you define a method in Vue.js that executes when a button is clicked?**

  - A. Using the `v-on:click` directive
  - B. Using the `@click` shorthand
  - C. Both A and B
  - D. Using the `v-bind:click` directive

Answer: C. Both A and B

12. **What is the purpose of the `v-if` and `v-else` directives in Vue.js?**

  - A. Used for conditional rendering
  - B. Defines custom directives
  - C. Handles form submissions
  - D. Adds or removes CSS classes

Answer: A. Used for conditional rendering

13. **What does the `key` attribute do when used with `v-for` in Vue.js?**

  - A. Specifies the type of transition effect
  - B. Provides a unique identifier for elements in a list
  - C. Sets the initial value for data properties
  - D. Adds a custom attribute to each element in a list

Answer: B. Provides a unique identifier for elements in a list

14. **How can you include external libraries like Axios in a Vue.js project?**

  - A. Download and manually include the library in the project
  - B. Import the library using the `import` statement
  - C. Use a CDN link in the HTML file
  - D. All of the above

Answer: B. Import the library using the `import` statement

15. **What is the purpose of the `v-bind` directive in Vue.js?**

  - A. Binds an attribute to an expression
  - B. Binds a class dynamically
  - C. Binds an event handler
  - D. Binds a style dynamically

Answer: A. Binds an attribute to an expression

16. **What is the main role of Vuex in a Vue.js application?**

    - A. Manages global state
    - B. Handles routing
    - C. Facilitates component communication
    - D. Provides a way to define mixins

    Answer: A. Manages global state

17. **What is the primary purpose of the `v-model` directive in Vue.js?**

    - A. Binds an input element to a variable
    - B. Handles form submissions
    - C. Defines a model for a component
    - D. Enables two-way data binding on form elements

    Answer: D. Enables two-way data binding on form elements

18. **How can you dynamically switch between multiple components in Vue.js?**

    - A. Using the `v-if` directive
    - B. Using the `v-switch` directive
    - C. Using the `v-bind` directive
    - D. Using dynamic components with the `:is` attribute

    Answer: D. Using dynamic components with the `:is` attribute

19. **What is the purpose of the `v-on` directive in Vue.js?**

    - A. Binds an attribute to an expression
    - B. Binds a class dynamically
    - C. Binds an event handler
    - D. Binds a style dynamically

    Answer: C. Binds an event handler

20. **Which directive is used for dynamic component creation in Vue.js?**

    - A. v-if
    - B. v-switch
    - C. v-bind
    - D. v-on

    Answer: C. v-bind

21. **In Vue.js, what is the purpose of the `beforeDestroy` lifecycle hook?**

- A. Executed before a component is created
- B. Invoked before a component is destroyed
- C. Called before a component is mounted to the DOM
- D. Executed when a component is updated

Answer: B. Invoked before a component is destroyed

22. **What is the role of the `transition` component in Vue.js?**

   - A. Manages transitions and animations for elements entering or leaving the DOM
   - B. Defines a custom directive
   - C. Controls the state of a component
   - D. Facilitates communication between parent and child components

   Answer: A. Manages transitions and animations for elements entering or leaving the DOM

23. **What is the purpose of the `.sync` modifier in Vue.js when using props?**

   - A. Enables two-way data binding between parent and child components
   - B. Forces synchronous rendering of components
   - C. Synchronizes data with a server
   - D. Prevents unnecessary re-renders

   Answer: A. Enables two-way data binding between parent and child components

24. **How can you handle asynchronous operations in Vue.js?**

   - A. Using the `async` keyword in methods
   - B. Utilizing the `await` keyword within lifecycle hooks
   - C. Using promises or async/await syntax
   - D. Both B and C

   Answer: C. Using promises or async/await syntax

25. **What is the purpose of the `.trim` modifier in Vue.js when using `v-model`?**

   - A. Trims leading and trailing whitespace from the input value
   - B. Converts the input value to lowercase
   - C. Removes all whitespace from the input value
   - D. Prevents user input from being trimmed

   Answer: A. Trims leading and trailing whitespace from the input value

26. **In Vue.js, what is the significance of the `mixins` option?**

   - A. Used for mixing colors in the application
   - B. Enables the use of multiple CSS mixins
   - C. Provides a way to reuse and share component options
   - D. Facilitates communication between sibling components

Answer: C. Provides a way to reuse and share component options

27. **What is the purpose of the `.once` modifier in Vue.js event handling?**

    - A. Listens to the event only once
    - B. Prevents the default browser behavior
    - C. Adds a one-time delay to the event handler
    - D. Allows the event to propagate only once

    Answer: A. Listens to the event only once

28. **How does Vue.js handle reactivity in its data system?**

    - A. By using a reactive programming paradigm
    - B. By implementing a virtual DOM
    - C. Through getter and setter functions
    - D. By using traditional event listeners

    Answer: C. Through getter and setter functions

29. **What is the purpose of the `template` option in a Vue.js component?**

    - A. Defines the structure of the component's HTML
    - B. Specifies the CSS styles for the component
    - C. Configures the component's state
    - D. Declares the data properties for the component

    Answer: A. Defines the structure of the component's HTML

30. **What is the main advantage of using Single File Components in Vue.js?**

    - A. Improved SEO
    - B. Simplified project structure
    - C. Enhanced security
    - D. Better performance

    Answer: B. Simplified project structure

31. **What does the `.lazy` modifier do when used with the `v-bind` directive in Vue.js?**

    - A. Defers the binding until a later event
    - B. Delays the rendering of an element
    - C. Lazily loads the binding data
    - D. Forces immediate binding

    Answer: C. Lazily loads the binding data

32. **In Vue.js, how can you dynamically bind a CSS class based on a condition?**

- A. Using `v-bind:class`
- B. Using `v-class`
- C. Using `v-style`
- D. Using `v-if`

Answer: A. Using `v-bind:class`

33. **What is the purpose of the `v-pre` directive in Vue.js?**

   - A. Prevents a directive from being compiled
   - B. Skips compilation for the element and its children
   - C. Prevents a component from rendering
   - D. Allows using raw HTML in an element

Answer: B. Skips compilation for the element and its children

34. **How can you handle errors in a Vue.js application?**

   - A. Using try...catch blocks in the template
   - B. Utilizing the `error` lifecycle hook
   - C. Implementing a global error handler
   - D. Both B and C

Answer: D. Both B and C

35. **What is the purpose of the `ref` attribute in Vue.js?**

   - A. Represents a reference to a component's data
   - B. Provides a way to reference an element or component in the template
   - C. Specifies the routing configuration for a component
   - D. Defines the relationship between parent and child components

Answer: B. Provides a way to reference an element or component in the template

36. **In Vue.js, what is the purpose of the `.once` modifier when binding an event?**

   - A. Delays the execution of the event handler
   - B. Stops the event propagation to parent elements
   - C. Binds the event listener only once
   - D. Prevents the default browser behavior

Answer: C. Binds the event listener only once

37. **How can you perform unit testing in Vue.js components?**

   - A. Using the `vue-test-utils` library with Jest or Mocha
   - B. Utilizing the `v-test` directive
   - C. Using the `vue-testing-library` with Karma
   - D. Both A and C

Answer: A. Using the `vue-test-utils` library with Jest or Mocha

38. **What is the purpose of the `.exact` modifier in Vue Router?**

    - A. Matches the route exactly without considering nested routes
    - B. Executes the route handler exactly once
    - C. Forces an exact match for dynamic route segments
    - D. Allows case-sensitive matching for routes

    Answer: A. Matches the route exactly without considering nested routes

39. **What does the `v-once` directive do in Vue.js?**

    - A. Renders the element and its children only once
    - B. Binds an event listener that fires only once
    - C. Executes the event handler only once
    - D. Applies a one-time data binding to an element

    Answer: A. Renders the element and its children only once

40. **In Vue.js, what does the `$refs` property allow you to access?**

    - A. Parent component data
    - B. Child component data
    - C. DOM elements or child components
    - D. Vuex store state

    Answer: C. DOM elements or child components

41. **What is the purpose of the `v-pre` directive in Vue.js?**

    - A. Skips compilation for the element and its children
    - B. Prevents a component from rendering
    - C. Allows using raw HTML in an element
    - D. Prevents a directive from being compiled

    Answer: A. Skips compilation for the element and its children

42. **How can you conditionally render content based on whether a property exists in Vue.js?**

    - A. Using `v-if` with a condition checking for property existence
    - B. Using `v-show` with a condition checking for property existence
    - C. Using `v-bind` with a condition checking for property existence
    - D. Using `v-switch` with a condition checking for property existence

    Answer: A. Using `v-if` with a condition checking for property existence

43. **What is the purpose of the `extends` option in a Vue.js component?**

   - A. Extends the lifecycle of the component
   - B. Inheritance of data properties from a parent component
   - C. Allows components to extend each other
   - D. It is not a valid option in Vue.js components

   Answer: B. Inheritance of data properties from a parent component

44. **How do you handle asynchronous operations in Vue.js components?**

   - A. Using `async` and `await` in the `mounted` lifecycle hook
   - B. Using Promises in the `created` and `mounted` lifecycle hooks
   - C. Handling asynchronous operations directly in the template
   - D. Using the `asyncData` hook provided by Nuxt.js

   Answer: B. Using Promises in the `created` and `mounted` lifecycle hooks

45. **Which directive is used to bind an attribute conditionally in Vue.js?**

   - A. `v-attribute`
   - B. `v-bind`
   - C. `v-condition`
   - D. `v-attr`

   Answer: B. `v-bind`

46. **What is the purpose of the `.capture` modifier in Vue.js event handling?**

   - A. Captures the event and prevents it from reaching the target
   - B. Delays the execution of the event handler
   - C. Stops the event propagation to parent elements
   - D. Adds a debounce to the event

   Answer: A. Captures the event and prevents it from reaching the target

47. **In Vue.js, what is the significance of the `nextTick` method?**

   - A. Delays the execution of a function until the next tick of the event loop
   - B. Executes a function immediately
   - C. Used for transitioning between different routes
   - D. Updates the DOM in real-time

   Answer: A. Delays the execution of a function until the next tick of the event loop

48. **What is the purpose of the `v-html` directive in Vue.js?**

   - A. Binds an attribute to a variable
   - B. Inserts raw HTML content into an element

- C. Conditionally shows or hides an element
- D. Binds a class dynamically

Answer: B. Inserts raw HTML content into an element

49. **How do you define a custom event in a child component and listen for it in a parent component in Vue.js?**

    - A. Using the `v-on` directive in the parent and `$emit` in the child
    - B. Using the `v-emit` directive in the parent and `$on` in the child
    - C. Using the `v-model` directive in the parent and `$emit` in the child
    - D. Using the `v-bind` directive in the parent and `$emit` in the child

    Answer: A. Using the `v-on` directive in the parent and `$emit` in the child

50. **What is the purpose of the `.once` modifier in Vue.js event handling?**

    - A. Stops the event propagation to parent elements
    - B. Executes the event handler only once
    - C. Prevents the default browser behavior
    - D. Delays the execution of the event handler

    Answer: B. Executes the event handler only once

51. **Which Vue.js lifecycle hook is called when a component is inserted into the DOM?**

    - A. `beforeCreate`
    - B. `created`
    - C. `beforeMount`
    - D. `mounted`

    Answer: D. `mounted`

52. **What is the purpose of the `.prevent` modifier in Vue.js event handling?**

    - A. Stops the event propagation to parent elements
    - B. Prevents the default browser behavior
    - C. Delays the execution of the event handler
    - D. Adds a debounce to the event

    Answer: B. Prevents the default browser behavior

53. **How do you dynamically bind a class to an element in Vue.js based on a condition?**

    - A. Using `v-if` with a condition checking for class existence
    - B. Using `v-bind` with a condition checking for class existence
    - C. Using `v-switch` with a condition checking for class existence
    - D. Using `v-class` with a condition checking for class existence

Answer: B. Using `v-bind` with a condition checking for class existence