

Vue.js MCQs with answers

Topics : [Vue](#)

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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

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