

# 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
- o C. Binds a class dynamically
- o 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
- o D. Prevents an element from being displayed

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

# 8. How can you prevent a Vue is 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
- o C. Calculates derived data based on reactive data
- o 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
- o 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
- o 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?

- $\circ\,$  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
- o C. Binds an event handler
- o 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
- o 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
- $\circ$  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
- o 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
- o 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
- o 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
- $\circ\,$  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?

- o A. Listens to the event only once
- B. Prevents the default browser behavior
- o 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
- o 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.is 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
- o 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
- o C. Implementing a global error handler
- o 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
- o 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
- $\circ$  C. Using the vue-testing-library with Karma
- o 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
- o B. Binds an event listener that fires only once
- o C. Executes the event handler only once
- $\circ\,$  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
- o 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
- o 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
- o 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 is 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
- $\circ\,$  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

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