Vue.js Attendee Q&A Handout (with Answers)

⊗Theory & Concept Questions

Q1: What is the Composition API?

A: A new Vue 3 approach to organizing component logic inside setup(), using functions like ref, computed, and watch. It supports better logic reuse and TypeScript.

Q2: Difference between ref and reactive?

A: ref is for primitive values (number, string, boolean) and exposes value reactive makes entire objects or arrays reactive, tracking all nested properties.

Q3: What is a computed property?

A: A cached value that automatically recalculates only when its reactive dependencies change.

Q4: What is a watcher?

A: A function that runs custom side-effect code when reactive data changes.

Q5: When to use computed vs watcher?

A: Use computed to derive new reactive values for templates. Use watch when you need to run logic or side effects when data changes.

XCode & Demo Related Questions

Q6: Why do we have setup()?

A: It's the entry point for the Composition API where we define state, computed properties, and methods before the component renders.

Q7: Why use v-model?

A: It enables two-way binding between form inputs and component data.

Q8: What does v-html do?

A: It renders raw HTML from a string, useful for formatting like highlighting hashtags.

Q9: Why use computed for formattedContent?

A: It updates automatically when post.content changes and avoids recalculating on every render.

Q10: Why did the like button initially fail?

A: Because of a typo (clike) instead of likes), mismatched function names, and an invalid comma in the template.

Q11: What is emit?

A: It's how child components communicate events back to their parent components.

Q12: Why use v-for with key?

A: To help Vue track list items efficiently when rendering or updating.

General / Real-World Vue Questions

Q13: Can Vue work with backend APIs?

A: Yes, with Fetch or Axios to call REST or GraphQL APIs.

Q14: Vue vs React vs Angular?

A: Vue is simpler to learn and uses templates; React uses JSX; Angular is large and opinionated with built-in features.

Q15: Is Vue good for large apps?

A: Yes, especially using Composition API, Vue Router, and state management like Pinia.

Q16: When to use Vuex or Pinia?

A: When multiple components need to share or update global data.

Q17: How to deploy a Vue app?

A: Build using npm run build and deploy the dist folder to hosting like Netlify or Vercel.

Q18: Does Vue support TypeScript?

A: Yes, especially with Vue 3 and the Composition API.

Q19: What are single-file components?

A: vue files containing template, script, and style sections in one file.

Q20: Can we mix Composition API and Options API?

A: Yes, though it's better to use one style per component.

Q21: What are lifecycle hooks?

A: Functions like onMounted() that run at specific points in a component's life cycle.

Q22: How do components communicate?

A: Parent to child via props; child to parent via emit; globally via shared state (Vuex/Pinia) or an event bus.

Q23: What are slots?

A: Placeholders to let parent components inject custom content into child components.

Q24: Difference between v-if and v-show? A: v-if adds/removes elements from the DOM; v-show just toggles CSS visibility.

Q25: Can Vue work in existing websites?

A: Yes, you can mount Vue components to parts of static pages.

Q26: What are common performance tips?

A: Use : key in lists, prefer computed over methods in templates, and lazy-load components.

Q27: Can Vue do SSR?

A: Yes, with frameworks like Nuxt.js.

Q28: How to debug reactivity?

A: Use Vue Devtools to inspect reactive data and component structure.

Q29: What happens if I change a prop directly?

A: Vue will warn; props are read-only. Instead, emit an event to ask the parent to update the value.

Q30: How to lazy-load components?

A: Use defineAsyncComponent(() => import('./MyComponent.vue')).

(/Extra Practical Tips

- Use build tools (Vite, Vue CLI) for .vue files and bundling.
- Scoped CSS prevents style conflicts.
- Use watch for side effects; computed for derived values.
- Always add : key when rendering lists with v-for

ip: Try Vue Devtools and test reactivity by changing data in the browser.

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