1. What is Bootstrap and why is it popular?

Bootstrap is a front-end framework for developing responsive and mobile-first websites. It is popular due to its pre-designed components, grid system, and ease of use.

2. Explain the Bootstrap Grid System.

Bootstrap uses a 12-column grid system based on flexbox, allowing responsive layouts with different breakpoints (col-sm-*, col-md-*, col-lg-*, etc.).

3. What are Bootstrap Utility Classes?

Utility classes are predefined classes for spacing, colors, typography, borders, flex, and more, allowing quick styling without custom CSS.

4. What is the difference between Bootstrap Container and Container-fluid?

container has a fixed width that adapts at different breakpoints, while container-fluid spans the full width of the screen.

5. How to create a responsive navigation bar using Bootstrap?

Use the <nav> element with navbar, navbar-expand, and navbar-light/navbar-dark along with bg-* classes.

6. How to create a Bootstrap Modal?

Use the modal class along with data-bs-toggle="modal" and data-bs-target="#modalID" attributes for triggering.

7. Explain the key features of Bootstrap.

- o Responsive grid system
- o Pre-styled components (buttons, forms, modals, etc.)
- Utility classes
- o Mobile-first approach
- JavaScript plugins

8. Explain the concept of a responsive web design.

Responsive design ensures a website adjusts to different screen sizes using flexible layouts, images, and CSS media queries.

9. What are the advantages of using Bootstrap?

- Speeds up development
- Consistency across browsers
- Mobile-first design
- Large community support
- Predefined components

10. How can you create a responsive image in Bootstrap?

Use the img-fluid class: .

11. What is the purpose of Bootstrap's Jumbotron component?

The jumbotron (deprecated in Bootstrap 5) was used to highlight content with a large, padded section.

12. Explain the Bootstrap Modal component.

The modal component creates a pop-up dialog box that can contain text, forms, buttons, or other elements.