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### 1. What are the primary advantages of using Angular CLI for Angular 15 development?
- **A) Simplified project setup**
- **B) Automatic optimization of code**
- **D) Immediate access to testing utilities**
### 2. Which of the following decorators are used to define an Angular component?
- **B) @Component**
### 3. How can you optimize Angular 15 applications for better performance?
- **A) Use OnPush change detection strategy**
- **B) Use Lazy Loading for modules**
- **D) Use Angular Universal for server-side rendering**
### 4. Which of the following are valid lifecycle hooks in Angular 15?
- **A) ngOnChanges**
- **B) ngAfterViewInit**
- **C) ngOnInit**
### 5. In Angular 15, which of the following can trigger change detection?
- **A) User input**
- **B) HTTP request completion**
- **C) setTimeout**
### 6. What are the advantages of using Angular's Reactive Forms over Template-Driven Forms?
- **A) Easier unit testing**
- **B) More powerful and scalable **
- **D) Synchronous updates**
### 7. Which of the following are correct ways to provide a service in Angular 15?
- **A) At the root level using @Injectable({ providedIn: 'root' })**
- **B) Providing in @NgModule providers array**
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- **A) They allow for lazy loading**
- **B) They can import other Angular modules**
- **D) They group related components, directives, and services**
### 9. How can you handle errors in an Angular 15 application?
- **A) Use try-catch blocks in services**
- **B) Use the ErrorHandler service**
- **C) Create custom error pages**
### 10. Which of the following features are supported by Angular 15 Router?
- **A) Lazy loading of modules**
- **B) Nested routes**
- **C) Route guards**
### 11. What are the benefits of using Angular's Dependency Injection system?
- **A) Promotes reusability**
- **B) Helps with testing and mocking dependencies**
### 12. In Angular 15, how can you optimize bundle size?
- **A) Use Lazy Loading**
- **B) Use Ahead of Time (AOT) compilation **
- **D) Minimize third-party libraries**
### 13. Which of the following are valid Angular 15 directives?
- **A) ngIf**
- **B) ngFor**
- **D) ngClass**
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14. What is the purpose of Angular's HttpInterceptor?

8. Which of the following are true about Angular Modules?

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- **A) Modifying HTTP requests globally**
- **B) Handling HTTP errors globally**
### 15. What are the ways to share data between components in Angular 15?
- **A) Input and Output decorators**
- **B) Services**
### 16. Which of the following statements are true about Angular Pipes?
- **A) They transform data in templates**
- **B) They can be either pure or impure**
### 17. How can you improve the security of an Angular 15 application?
- **A) Sanitize user inputs**
- **B) Use Angular's built-in XSS protection**
- **D) Implement Content Security Policy (CSP)**
### 18. Which of the following statements about Angular Zones is correct?
- **A) Zones help track asynchronous operations**
- **B) Zones automatically trigger change detection**
- **D) Zones can be bypassed using NgZone**
### 19. What are the best practices for structuring an Angular 15 project?
- **A) Feature modules for different sections of the application**
- **B) Global services provided in AppModule**
- **C) Keeping components small and focused**
### 20. Which of the following are correct about Angular Elements?
- **A) Angular components can be packaged as Web Components**
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- **B) Angular Elements are platform-independent**

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### 21. Which of the following are valid ways to create a new Angular 15 component using Angular
CLI?
- **A) ng generate component my-component**
- **B) ng g c my-component**
### 22. What are the methods of handling HTTP responses in Angular 15?
- **A) Using map and catchError operators in RxJS**
- **B) Using the HttpClient's toPromise method**
- **C) Using async/await with HttpClient**
### 23. How can you optimize Angular 15 applications for SEO?
- **A) Using Angular Universal for server-side rendering**
- **B) Using meta tags and title service**
### 24. What are the features of Angular's RouterLink directive?
- **A) Binds a clickable element to a route**
- **B) Supports query parameters**
- **C) Can be used with both anchors and buttons**
### 25. Which of the following are correct about Angular 15 Service Workers?
- **A) They can cache application assets**
- **B) They can handle push notifications**
- **D) They are required for PWA functionality**
### 26. What are the differences between Template-Driven and Reactive Forms in Angular 15?
- **A) Template-Driven forms rely on directives**
- **B) Reactive Forms offer more control over form behavior**
- **C) Template-Driven forms are less scalable **
### 27. How can you create custom pipes in Angular 15?
- **A) Use the @Pipe decorator**
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- **B) Implement the PipeTransform interface**
- **C) Register the pipe in a module's declarations array**
### 28. Which of the following are valid use cases for Angular's Content Projection?
- **A) Passing template fragments from parent to child components**
- **B) Using multiple <ng-content> slots**
### 29. What are the benefits of using Angular's ViewEncapsulation?
- **A) Prevents styles from leaking into other components**
- **D) Encapsulates styles within the component**
### 30. Which of the following are features of Angular 15's AOT compilation?
- **A) Faster rendering in the browser**
- **B) Smaller bundle sizes**
- **C) Improved security against injection attacks**
### 31. What are the advantages of using Angular's Angular Universal?
- **A) Improves SEO by enabling server-side rendering**
- **B) Reduces the initial load time of the application**
### 32. Which of the following are supported by Angular 15's router guards?
- **A) CanActivate**
- **B) CanDeactivate**
- **C) CanLoad**
### 33. What are the key benefits of Angular Ivy in Angular 15?
- **A) Smaller bundle sizes**
- **B) Faster compilation and build times**
- **C) Easier debugging with improved stack traces**
### 34. How can you implement lazy loading in Angular 15?
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- **A) Using the loadChildren property in the route configuration **
- **B) Using dynamic imports**
### 35. Which of the following Angular 15 features help in managing application state?
- **A) Services with BehaviorSubject**
- **B) NgRx Store**
- **C) Component's local state**
### 36. What are the advantages of using Angular's Reactive Extensions (RxJS)?
- **A) Declarative handling of asynchronous operations**
- **B) Support for complex event streams**
- **C) Improved memory management with operators like takeUntil**
### 37. What are the best practices for handling forms in Angular 15?
- **A) Use Reactive Forms for complex forms**
- **B) Validate forms using built-in validators**
- **C) Use custom validators for business logic**
### 38. Which of the following statements about Angular's Change Detection Strategy are true?
- **A) Default strategy checks all components in a tree**
- **B) OnPush strategy checks only when input properties change**
- **C) Change detection can be manually triggered**
### 39. How can Angular's Renderer2 be used in Angular 15?
- **A) To manipulate DOM elements safely**
- **B) To create elements dynamically**
- **D) To apply styles to elements**
### 40. Which of the following are correct about Angular's template-driven forms?
- **A) Forms are created using Angular directives**
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- **A) Using CanActivate interface**
- **B) Using CanDeactivate interface**
- **C) Using AuthGuard services**
### 42. Which of the following are correct about Angular's structural directives?
- **A) They manipulate the DOM layout**
- **B) They do not modify the component's data model**
### 43. How can you handle asynchronous operations in Angular 15?
- **A) Using Observables**
- **B) Using Promises**
- **C) Using async/await syntax**
### 44. What are the key benefits of Angular's Dependency Injection system?
- **A) Reduces code coupling**
- **B) Simplifies service instantiation**
- **C) Enhances testability**
### 45. Which of the following are correct ways to unsubscribe from Observables in Angular 15?
- **A) Use the takeUntil operator**
- **B) Manually call unsubscribe in ngOnDestroy**
- **C) Use the async pipe in templates**
### 46. How can you implement content projection in Angular 15?
- **A) Use the <ng-content> tag**
- **B) Pass templates from parent to child components**
### 47. Which of
the following are true about Angular 15's Event Binding?
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41. What are the ways to implement route guards in Angular 15?

- **A) Binds event handlers to DOM events**
- **B) Supports custom event creation**
- **D) Can be combined with data binding**

48. How can Angular's Injector be used in Angular 15?

- **A) To manually instantiate services **
- **B) To provide services dynamically**

49. Which of the following are valid ways to work with Angular 15 animations?

- **A) Use Angular's built-in animation API**
- **B) Create animations using CSS**
- **D) Define animations in the component metadata**

50. What are the common practices for optimizing Angular 15 application performance?

- **A) Lazy loading routes and modules**
- **B) Implementing AOT compilation**
- **D) Using trackBy with ngFor**