Spring-boot Practice quiz

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* Indicates required question

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16. What is the use of @ImportAutoConfiguration? *   1 point

○ A. It disables autoconfiguration

○ B. It's used to import custom beans manually

⦿ C. It imports specified auto-configuration classes without using Spring Boot's standard autodiscovery

○ D. It binds properties

6. In reactive programming, what is the base type for returning a single value asynchronously?   * 1 point

○ A. Flux<T>

⦿ B. Mono<T>

○ C. CompletableFuture<T>

○ D. Observable<T>

19. What is the purpose of @Profile in Spring Boot? * 1 point

○ A. It selects the database profile

○ B. It defines which logging level to use

● C. It activates beans only for certain environments (e.g. dev, prod)

○ D. It marks a primary component

17. In Spring Boot 3, which class replaces spring.factories for declaring autoconfigurations? * 1 point

○ A. AutoConfigurationSelector

○ B. META-INF/auto-config.properties

● C. METAINF/spring/org.springframework.boot.autoconfigure.AutoConfiguration.imports

○ D. bootstrap.properties

8. How does Spring Boot handle circular dependency detection? * 1 point

○ A. It always throws an exception

○ B. It uses setter injection to resolve it automatically

○ C. It delays bean creation until the context is fully initialized

● D. It can detect and fail-fast unless allowed with spring.main.allow-circularreferences=true

11. What is @SpringBootTest(webEnvironment = WebEnvironment.RANDOM_PORT) used for? * 1 point

○ A. To randomly test different components

○ B. To load a random bean

● C. To start the embedded server on a random port for integration tests

○ D. To simulate cloud deployment

22. What's the use of @ConfigurationPropertiesScan? * 1 point

○ A. Enables scanning of @Configuration classes

● B. Scans and registers classes annotated with @ConfigurationProperties

○ C. Scans application.yml

○ D. Enables component scan

10. Which property enables lazy initialization of beans in Spring Boot? * 1 point

○ A. spring.beans.lazy-init=true

● B. spring.main.lazy-initialization=true

○ C. spring.context.lazy=true

○ D. lazy.init=true

21. How do you define a custom environment post-processor in Spring Boot?

* 1 point

- ○ A. Implement EnvironmentCustomizer
- ○ B. Extend PropertyEditorSupport
- ◉ C. Implement EnvironmentPostProcessor and register it in META-INF/spring.factories
- ○ D. Use @EnvironmentBean

18. How can you override a bean defined in an auto-configuration class?

* 1 point

- ○ A. Use @Primary
- ◉ B. Declare your own bean of the same type before the auto-config runs
- ○ C. Use @OverrideBean
- ○ D. You cannot override auto-configured beans

20. How does Spring Boot support hot-swapping during development?

* 1 point

- ○ A. Through AOT (ahead-of-time) compilation
- ○ B. Through JRebel
- ◉ C. Through spring-boot-devtools
- ○ D. Through remote debugging

25. In Spring Boot, what happens if a @RestController returns a Mono>? * 1 point

○ A. It fails with conversion error

◉ B. Spring uses reactive HTTP handling and serializes the response asynchronously

○ C. It blocks the thread

○ D. It returns 204 by default

23. Which of the following is not part of Spring Boot's default error handling mechanism? * 1 point

○ A. BasicErrorController

○ B. ErrorAttributes

◉ C. CustomErrorHandler

○ D. DefaultErrorViewResolver

14. What is the default thread model used by WebFlux? * 1 point

○ A. Traditional thread-per-request

○ B. ForkJoinPool

◉ C. Netty event loop

○ D. ThreadPoolExecutor

1. How does Spring Boot determine which auto-configuration classes to load? * 1 point

- ◯ A. Through application.properties

- ◯ B. Based on @ComponentScan

- ⦿ C. Using @EnableAutoConfiguration and spring.factories or METAINF/spring/org.springframework.boot.autoconfigure.AutoConfiguration.imports

- ◯ D. By scanning all classes on the classpath

13. What class does Spring Boot use to configure and start the application context? * 1 point

- ◯ A. SpringInitializer

- ◯ B. SpringAppContext

- ⦿ C. SpringApplication

- ◯ D. SpringBootRunner

3. What's the order of execution when both CommandLineRunner and ApplicationRunner are defined? * 1 point

- ◯ A. ApplicationRunner runs first

- ◯ B. CommandLineRunner runs first

- ◯ C. They run in parallel

- ⦿ D. The one with higher @Order annotation runs first

4. What annotation would you use to enable configuration properties binding to a POJO class? * 1 point

○ A. @EnableConfigurationProperties ●(selected)

○ B. @ValueBinding

○ C. @BindProperties

○ D. @ConfigurationBinding

9. How can you create a custom HealthIndicator for Spring Boot Actuator? * 1 point

○ A. Extend AbstractHealthCheck

● B. Implement org.springframework.boot.actuate.health.HealthIndicator

○ C. Annotate a bean with @HealthCheck

○ D. Use @Component with HealthEndpoint

24. What is the advantage of Spring Boot's layered jar support (introduced in 2.3+)? * 1 point

○ A. Improves debugging

● B. Allows Docker image caching by separating dependencies from application code

○ C. Enables remote deployment

○ D. Automatically splits app into modules

12. In Spring Boot, what does @WebFluxTest load? * 1 point

○ A. The full application context

⦿ B. Only controller layer and minimal WebFlux configuration

○ C. JPA repositories and services

○ D. Full reactive support and database connections

15. How can you programmatically disable a Spring Boot auto-configuration class? * 1 point

○ A. Using @DisableAutoConfig

⦿ B. Through spring.autoconfigure.exclude in application.properties

○ C. Using @EnableAutoConfiguration(false)

○ D. Using a profile

7. In Spring Boot, what does the @ConditionalOnMissingBean annotation do? * 1 point

○ A. Prevents bean injection

○ B. Creates a bean only if it already exists

⦿ C. Creates a bean only if no bean of the type exists in the context

○ D. Marks a required bean

5. Which of the following is true about spring-boot-starter-webflux? * 1 point

○ A. It's used for SOAP-based services

○ B. It supports imperative programming

◉ C. It enables non-blocking, reactive web applications using Project Reactor

○ D. It uses the same DispatcherServlet as MVC

2. What is the correct way to define a custom conditional auto-configuration in Spring Boot 3+? * 1 point

○ A. @ConditionalOnClasspath

○ B. @ConditionalAutoConfiguration

◉ C. @AutoConfiguration with @ConditionalOnXxx annotations

○ D. @EnableAutoConfiguration with @Configuration

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