

Practice Exam Questions

vmware



Spring Professional Develop



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VMware

Exam 2V0-72.22

Professional Develop VMware Spring

Version: 3.0

[Total Questions: 60]

Question No : 1

Which two statements are true regarding Spring Boot Testing? (Choose two.)

- A. @TestApplicationContext is used to define additional beans or customizations for a test.
- B. Test methods in a @SpringBootTest class are transactional by default.
- C. @SpringBootTest is typically used for integration testing.
- D. Test methods annotated with @SpringBootTest will recreate the ApplicationContext.
- E. @SpringBootTest without any configuration classes expects there is only one class annotated with @SpringBootConfiguration in the application.

Answer: C,D

Question No : 2

Which two use cases can be addressed by the method level security annotation @PreAuthorize? (Choose two.)

- A. Allow access to a method based on user identity.
- B. Allow access to a method based on the returned object.
- C. Allow access to a method based on HTTP method.
- D. Allow access to a method based on request URL.
- E. Allow access to a method based on roles.

Answer: C,E

Reference: <https://docs.spring.io/spring-security/site/docs/5.2.11.RELEASE/reference/html/authorization.html>

Question No : 3

Which two statements are true regarding a Spring Boot-based Spring MVC application? (Choose two.)

- A. The default embedded servlet container can be replaced with Undertow.
- B. Jetty is the default servlet container.
- C. Spring Boot starts up an embedded servlet container by default.
- D. The default port of the embedded servlet container is 8088.
- E. Spring MVC starts up an in-memory database by default.

Answer: B,C

Reference: <https://www.javatpoint.com/spring-vs-spring-boot-vs-spring-mvc>

Question No : 4

What are the two reasons Spring be used to build a Java application? (Choose two.)

- A. Spring automates a Java application build.
- B. Spring provides a Dependency Injection container.
- C. Spring automates deployment of Java applications to all of the major cloud providers.
- D. Spring provides comprehensive Java IDE support.
- E. Spring provides abstractions over infrastructure such as persistence and messaging.

Answer: A,B

Reference: <https://spring.io/why-spring>

Question No : 5

Which two statements are correct regarding the @EnableAutoConfiguration annotation? (Choose two.)

- A. It is a meta-annotation on the @SpringBootApplication composed annotation.
- B. It enables auto-configuration of the ApplicationContext by attempting to guess necessary beans.
- C. It is meta-annotation on the @SpringBootConfiguration composed annotation.
- D. It has the same effect regardless of the package of the class that is annotated with it.
- E. It ensures auto-configuration is applied before user-defined beans have been registered.

Answer: A,D

Reference: <https://docs.spring.io/spring-boot/docs/current/api/org/springframework/boot/autoconfigure/EnableAutoConfiguration.html>

Question No : 6

Which two are required to use transactions in Spring? (Choose two.)

- A. Add @EnableTransactionManagement to a Java configuration class.
- B. Annotate a class, an interface, or individual methods requiring a transaction with the @Transactional annotation.
- C. A class must be annotated with @Service and @Transaction.
- D. A class requiring a transaction must implement the TransactionInterceptor interface.
- E. Write a Spring AOP advice to implement transactional behavior.

Answer: A,B

Reference: <https://www.baeldung.com/transaction-configuration-with-jpa-and-spring>

Question No : 7

Refer to the exhibit.

```
@Configuration
@ConditionalOnClass (HelloService.class)
public class HelloAutoConfig {
    @ConditionalOnMissingBean (HelloService.class)
    @Bean
    HelloService helloService() {
        return new TypicalHelloService ();
    }
}
```

Which two statements are correct regarding the HelloAutoConfig auto-configuration class when it is specified in the META-INF/spring.factories file? (Choose two.)

- A. A HelloService bean will be created from the helloService() method even if the HelloService.class is not in the classpath.
- B. A HelloService bean will be created from the helloService() method only when there is no other HelloService bean in the ApplicationContext.
- C. This auto-configuration class is used only when the HelloService.class is not on the classpath.

- D.** This auto-configuration class is used only when the `HelloService.class` is on the classpath.
- E.** A `HelloService` bean will be created from the `helloService()` method and will replace existing a `HelloService` bean in the `ApplicationContext`.

Answer: B,D

Question No : 8

Which two statements are true regarding bean creation? (Choose two.)

- A.** A Spring bean can be explicitly created by annotating methods or fields by `@Autowired`.
- B.** A Spring bean can be implicitly created by annotating the class with `@Component` and using the component-scanner to scan its package.
- C.** A Spring bean can be implicitly created by annotating the class with `@Bean` and using the component- scanner to scan its package.
- D.** A Spring bean can be explicitly created using `@Bean` annotated methods within a Spring configuration class.
- E.** A Spring bean can be explicitly created by annotating the class with `@Autowired`.

Answer: B,E

Reference: <https://docs.spring.io/spring-framework/docs/3.0.0.M4/spring-framework-reference/html/ch03s10.html>

<https://howtodoinjava.com/spring-core/spring-beans-autowiring-concepts/>

Question No : 9

Which statement defines a pointcut? (Choose the best answer.)

- A.** A point in the execution of a program such as a method call or field assignment.
- B.** An expression that selects one or more join points.
- C.** A module that encapsulated advices.
- D.** Code to be executed at each selected join point.

Answer: B

Reference: <https://www.baeldung.com/spring-aop-pointcut-tutorial>

Question No : 10

Which two statements are correct regarding the Health Indicator status? (Choose two.)

- A. The last status in a sorted list of HealthIndicators is used to derive the final system health.
- B. The status with the least severity is used as the top-level status.
- C. Custom status values can be created.
- D. The built-in status values are DOWN, OUT_OF_SERVICE, UNKNOWN, and UP in decreasing order of severity.
- E. The severity order cannot be changed due to security reasons.

Answer: C,D

Reference: <https://docs.spring.io/spring-boot/docs/1.5.x/reference/html/production-ready-endpoints.html>

Question No : 11

What is a Spring Boot starter dependency? (Choose the best answer.)

- A. A setting for specifying which code you want Spring Boot to generate for you.
- B. A specific POM which you must build to control Spring Boot's opinionated runtime.
- C. A pre-existing model project you can download and use as the basis of your project.
- D. An easy way to include multiple, coordinated dependencies related to a specific technology, like web or JDBC.

Answer: D

Reference: <https://developer.ibm.com/tutorials/j-spring-boot-basics-perry/>

Question No : 12

Which option is true about use of mocks in a Spring Boot web slice test? (Choose the best answer.)

- A. Mocking a Spring Bean requires annotating it with @MockBean annotation.
- B. If a Spring Bean already exists in the web slice test spring context, it cannot be mocked.
- C. Mocks cannot be used in a Spring Boot web slice test.
- D. Mocking a Spring Bean requires annotating it with @Mock annotation.

Answer: A

Reference: <https://tanzu.vmware.com/developer/guides/spring-boot-testing/>

Question No : 13

What two options are auto-configured Spring Boot Actuator HealthIndicators? (Choose two.)

- A. DataSourceHealthIndicator
- B. GoogleCloudDataStoreHealthIndicator
- C. DynamoDBHealthIndicator
- D. RabbitHealthIndicator
- E. OktaHealthIndicator

Answer: A,D

Reference: <https://docs.spring.io/spring-boot/docs/1.5.x/reference/html/production-ready-endpoints.html>

Question No : 14

Which two statements are correct regarding Spring Boot 2.x Actuator Metrics? (Choose two.)

- A. An external monitoring system must be used with Actuator.
- B. The metrics endpoint /actuator/metrics is exposed over HTTP by default.
- C. Timer measures both the number of timed events and the total time of all events timed.
- D. Custom metrics can be measured using Meter primitives such as Counter, Gauge, Timer, andDistributionSummary.
- E. A metric must be created with one or more tags.

Answer: A,B

Question No : 15

Which two statements describe Spring JdbcTemplate? (Choose two.)

- A. All JdbcTemplate methods throw SQLException which you are required to handle.
- B. The JdbcTemplate provides the ability to work with result sets.
- C. The JdbcTemplate can only perform update but not insert to the database.
- D. The JdbcTemplate provides methods for query execution.
- E. The JdbcTemplate generates SQL statements.

Answer: B,E

Reference: <https://www.baeldung.com/spring-jdbctemplate-in-list>

Question No : 16

Which statement describes the @AfterReturning advice type? (Choose the best answer.)

- A. The advice is invoked only if the method returns successfully but not if it throws an exception.
- B. The @AfterReturning advice allows behavior to be added after a method returns even if it throws an exception.
- C. The advice has complete control over the method invocation; it could even prevent the method from being called at all.
- D. Typically used to prevent any exception, thrown by the advised method, from propagating up the call-stack.

Answer: A

Reference: <https://www.amitph.com/spring-aop-afterreturning-advice>

Question No : 17

Which two statements are true regarding @DataJpaTest? (Choose two.)

- A. TestEntityManager provides all methods that are provided by EntityManager and more.
- B. If an embedded database is on the classpath, it will be used to configure a DataSource by default.
- C. It can be used for testing both JPA components and NoSQL components.
- D. It auto-configures a TestEntityManager bean.
- E. It can be used for testing JdbcTemplate.

Answer: B,D

Reference: <https://docs.spring.io/spring-boot/docs/current/api/org/springframework/boot/test/autoconfigure/orm/jpa/DataJpaTest.html>

Question No : 18

Refer to the exhibit.

```
@RestController
public class OrderController {

    ...

    @PutMapping("/store/orders/{id}")
    void update(@PathVariable String id, @RequestBody Order order) {

        ...

    }

}
```

How can a response status code be set for No Content (204)? (Choose the best answer.)

- A. Annotate the update() handler method with @PutMapping("/store/orders/{id}", HttpStatus.NO_CONTENT).
- B. Annotate the update() handler method with @ResponseStatus(HttpStatus.NO_CONTENT).
- C. Annotate the update() handler method with @ResponseBody(204).
- D. The update() handler method cannot return a void type, it must return a ResponseEntity type.

Answer: C

Reference: <https://stackoverflow.com/questions/55691288/is-this-the-correct-way-to-return-204-no-content-using-spring>