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QUESTION 1

If a class is annotated with @Component, what should be done to have Spring automatically detect the annotated class and load it as a bean? (Choose the best answer.)

- A. Ensure a valid bean name in the @Component annotation is specified.
- B. Ensure a valid @ComponentScan annotation in the Java configuration is specified.
- C. Ensure a valid @Scope for the class is specified.
- D. Ensure a valid @Bean for the class is specified.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.baeldung.com/spring-component-annotation>

QUESTION 2

Which two options will inject the value of the daily.limit system property? (Choose two.)

- A. @Value("#{daily.limit}")
- B. @Value("\${systemProperties.daily.limit}")
- C. @Value("\${daily.limit}")
- D. @Value("#{systemProperties['daily.limit']}")
- E. @Value("#{systemProperties.daily.limit}")

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 3

Which two options are REST principles? (Choose two.)

- A. RESTful applications use a stateless architecture.
- B. RESTful application use HTTP headers and status codes as a contract with the clients.
- C. RESTful applications cannot use caching.
- D. RESTful application servers keep track of the client state.
- E. RESTful applications favor tight coupling between the clients and the servers.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 4

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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

QUESTION 5

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

- A. Access control can be configured at the method level.
- B. A special Java Authentication and Authorization Service (JAAS) policy file needs to be configured.
- C. Authentication data can be accessed using a variety of different mechanisms, including databases and LDAP.
- D. In the authorization configuration, the usage of `permitAll()` allows bypassing Spring security completely.
- E. It provides a strict implementation of the Java EE Security specification.

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.baeldung.com/security-none-filters-none-access-permitAll>

QUESTION 6

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.

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Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

QUESTION 7

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

- A. EasyMock is supported out of the box.
- B. `@SpringBootTest` or `@SpringJUnit4Config` can be used for creating an `ApplicationContext`.
- C. Mockito spy is not supported in Spring Boot testing by default.
- D. The `spring-test` dependency provides annotations such as `@Mock` and `@MockBean`.
- E. Integration and slice testing are both supported.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.spring.io/spring-boot/docs/2.1.5.RELEASE/reference/html/boot-features-testing.html>

QUESTION 8

Refer to the exhibit.

```
public class ClientServiceImpl implements ClientService{
    @Transactional(propagation=Propagation.REQUIRED)
    public void update() {
        update2();
    }
    @Transactional(propagation=Propagation.REQUIRES_NEW)
    public void update2() {
    }
}
```

Assume that the application is using Spring transaction management which uses Spring AOP internally. Choose the statement that describes what is happening when the update1 method is called? (Choose the best answer.)

- A. There are 2 transactions because REQUIRES_NEW always runs in a new transaction.
- B. An exception is thrown as another transaction cannot be started within an existing transaction.
- C. There is only one transaction because REQUIRES_NEW will use an active transaction if one already exists.
- D. There is only one transaction initiated by update1() because the call to update2() does not go through the proxy.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 9

Which two statements are true concerning constructor injection? (Choose two.)

- A. If there is only one constructor the @Autowired annotation is not required.
- B. Constructor injection only allows one value to be injected.
- C. Constructor injection is preferred over field injection to support unit testing.
- D. Construction injection can be used with multiple constructors without @Autowired annotation.
- E. Field injection is preferred over constructor injection from a unit testing standpoint.

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 10

Given an ApplicationContext containing three bean definitions of type Foo with bean ids foo1, foo2, and foo3, which three @Autowired scenarios are valid and will allow the ApplicationContext to initialize successfully? (Choose three.)

- A. @Autowired public void setFoo (Foo foo) {...}
- B. @Autowired @Qualifier ("foo3") Foo foo;
- C. @Autowired public void setFoo (@Qualifier ("foo1") Foo foo) {...}
- D. @Autowired private Foo foo;
- E. @Autowired private Foo foo2;
- F. @Autowired public void setFoo(Foo foo2) {...}

Correct Answer: ADF

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 11

Which dependency enables an automatic restart of the application as code is changed during development of a Spring boot configuration on a web application? (Choose the best answer.)

- A. spring-boot-devtools
- B. spring-boot-initializr
- C. spring-boot-starter-devtools
- D. spring-boot-restart

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.spring.io/spring-boot/docs/current/reference/html/using.html>

QUESTION 12

Spring puts each bean instance in a scope. What is the default scope? (Choose the best answer.)

- A. prototype
- B. singleton
- C. request
- D. session

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://stackoverflow.com/questions/17599216/spring-bean-scopes>

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QUESTION 13

Refer to the exhibit.

```
@PutMapping("/accounts/{id}")
public void update() {}
```

Which option is a valid way to retrieve the account id? (Choose the best answer.)

- A. Add @PathVariable("id") String accountId argument to the update() handler method.
- B. Add @PathVariable long accountId argument to the update() handler method.
- C. Add @RequestParam long accountId argument to the update() handler method.
- D. Add @RequestParam("id") String accountId argument to the update() handler method.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.spring.io/spring-framework/docs/4.3.12.RELEASE/spring-framework-reference/htmlsingle/>

QUESTION 14

Which strategy is correct for configuring Spring Security to intercept particular URLs? (Choose the best answer.)

- A. The URLs can be specified via configuration (using authorizeRequests () and request matchers), with the most specific rule first and the least specific last.
- B. Spring Security can obtain URLs from Spring MVC controllers, the Spring Security configuration just needs a reference to the controller to be protected.
- C. The URLs are specified in a special properties file, used by Spring Security.

D. The URLs can be specified via configuration (using `authorizeRequests ()` and request matchers), with the least specific rule first and the most specific last.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.baeldung.com/security-none-filters-none-access-permitAll>

QUESTION 15

In which three ways are Security filters used in Spring Security? (Choose three.)

- A. To provide risk governance.
- B. To drive authentication.
- C. To manage application users.
- D. To provide a logout capability.
- E. To enforce authorization (access control).
- F. To encrypt data.

Correct Answer: BDE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.javadevjournal.com/spring-security/spring-security-filters/>

QUESTION 16

Refer to the exhibit.

```
@Bean
@ConditionalOnBean (name= "dataSource")
public JdbcTemplate jdbcTemplate (DataSource dataSource) {
    return new JdbcTemplate (dataSource);
}
```

The above code shows a conditional `@Bean` method for the creation of a `JdbcTemplate` bean. Which two statements correctly describe the code behavior? (Choose two.)

- A. `@ConditionalOnBean(name= "dataSource")` should be replaced with `@ConditionalOnBean(DataSource.class)` for greater flexibility.
- B. `@ConditionalOnBean(name= "dataSource")` should be replaced with `@ConditionalOnMissingBean(DataSource.class)` for greater flexibility.
- C. The `@Bean` annotation should be removed.
- D. A `JdbcTemplate` bean will be created when the `DataSource` class is in the classpath but there is no `DataSource` bean.
- E. A `JdbcTemplate` bean will be created when a bean named `dataSource` has already been created.

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 17

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.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Explanation:

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

QUESTION 18

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.

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

Explanation:

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

QUESTION 19

Which two statements are true regarding the RestTemplate class? (Choose two.)

- A. It supports asynchronous non-blocking model.
- B. It automatically supports sending and receiving Java objects.
- C. It provides convenience methods for writing REST clients.
- D. It provides convenience methods for writing REST services.
- E. Sending an HTTP request with a custom header is not possible when using RestTemplate.



Correct Answer: BE
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.spring.io/spring-framework/docs/current/javadocapi/org/springframework/web/client/RestTemplate.html>

QUESTION 20

Which statement is true? (Choose the best answer.)

- A. @ActiveProfiles is a class-level annotation that is used to instruct the Spring TestContext Framework to record all application events that are published in the ApplicationContext during the execution of a single test.
- B. @ActiveProfiles is a class-level annotation that you can use to configure how the Spring TestContext Framework is bootstrapped.
- C. @ActiveProfiles is a class-level annotation that you can use to configure the locations of properties files and inlined properties to be added to the set of PropertySources in the Environment for an ApplicationContext loaded for an integration test.
- D. @ActiveProfiles is a class-level annotation that is used to declare which bean definition profiles should be active when loaded an ApplicationContext for an integration test.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.spring.io/spring-framework/docs/4.2.x/spring-framework-reference/html/integration-testing.html>

QUESTION 21

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

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

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

QUESTION 22

Which two annotations indicate that the transaction for a transactional test method should be committed after the test method has completed? (Choose two.)

- A. @SqlMergeMode(false)
- B. @Rollback(false)
- C. @Commit
- D. @Sql(alwaysCommit=true)
- E. @Transactional(commit=true)

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://stackoverflow.com/questions/9817388/junit-tests-always-rollback-thetransactions>

QUESTION 23

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, and DistributionSummary.
- E. A metric must be created with one or more tags.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 24

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.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 25

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.

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

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

QUESTION 26

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.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

QUESTION 27

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.

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

QUESTION 28

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.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

QUESTION 29

Which statement describes the propagation behavior of Propagation.REQUIRES_NEW annotation? (Choose the best answer.)

- A. Starts a new transaction but throws an exception if an active transaction already exists.
- B. Joins a transaction if one already exists; throws an exception if an active transaction does not exist.
- C. Starts a new transaction; if an active transaction already exists, it is suspended.
- D. Runs in a nested transaction if an active transaction exists; throws an exception if an active transaction does not exist.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://codete.com/blog/spring-transaction-propagation-modes>

QUESTION 30

Which following statements are true about Spring Data? (Choose two.)

- A. Spring Data implementations exist for many data storage types, such as MongoDB, Neo4j, and Redis.
- B. Spring Data works by applying the JPA annotations to data stores such as MongoDB, Neo4j, and Redis.
- C. Spring Data can greatly reduce the amount of “boilerplate” code typically needed for data access.
- D. Spring Data is specifically designed for JPA, JDBC, and relational database access only.
- E. Spring Data cannot be used together with Spring MVC.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.spring.io/spring-data/data-commons/docs/1.6.1.RELEASE/reference/html/repositories.html>