Spring - Formative assessment - P6A

Points: 19/22   Time: 19:00

✕ **Incorrect**   0/1 Points

1. Select all the correct statements from the below? *

☑ @Configuration is a class level annotation

☐ @Configuration is a method level annotation

☐ @Autowired can be written only on property

☑ @Autowired can be written on property, setter and constructor

☐ @Autowired is a class level annotation

☐ @Bean is a method level annotation

☑ @Bean is a class level annotation

✓ **Correct**   1/1 Points

2. Which of the below in Spring framework provides support for internationalization (i18n) functionality? *

◯ BeanFactory

○ ApplicationContext

○ InitializingBean

○ DisposableBean

✓ **Correct**   1/1 Points

3. Assume you have defined 2 custom methods setUp() and clean() methods in the Customer bean class to perform certain actions upon initialization and destruction, how would you update the same in spring configuration file? *

○ <bean id="customer" class="com.spring.Customer" init-method="setUp()" destroy-method="clean()"></bean>

● <bean id="customer" class="com.spring.Customer" init-method="setUp" destroy-method="clean"></bean>

○ <bean id="customer" class="com.spring.Customer" init="setUp()" destroy="clean()"></bean>

○ <bean id="customer" class="com.spring.Customer" init="setUp" destroy="clean"></bean>

✓ **Correct**   1/1 Points

4. Select all the correct statements from the below about autowiring in Spring? *

☑ The byName mode injects the object dependency according to name of the bean. In such case, property name and bean name must be same. It internally calls setter method.

☐ The byName mode injects the object dependency according to name of the bean. In such case, property name and bean name must not be same. It internally calls setter method.

☑ The byType mode injects the object dependency according to type. So property name and bean name can be different. It internally calls setter method.

☑ The constructor mode injects the dependency by calling the constructor of the class.

☐ The byType mode injects the object dependency according to type. So property name and bean name must be same. It internally calls setter method.

✓ **Correct**   1/1 Points

5. Which attribute is used to specify class name of the bean? *

   ◯ name

   ◯ id

   ⦿ class

   ◯ className

✕ **Incorrect**   0/1 Points

6. Which of the below tag is used to activate the annotations inside the beans which are already registered with the Application context *

   ⦿ <annotation-config>

   ◯ <context:annotation-config>

   ◯ <xml:annotation-config>

   ◯ <bean:annotation-config>

✓ **Correct**   1/1 Points

7. What is a ***callback interface*** that is called for each row and maps the row of relations with the instances to the model (user-defined) class ? *

○ ResultSetExtractor

◉ RowMapper

○ PreparedStatementSetter

○ RowSet

✓ **Correct**   1/1 Points

8. Which method is responsible for retrieving a bean instance from the Spring container? *

○ get()

◉ getBean()

○ getObject()

○ toString()

✓ **Correct**   1/1 Points

9. ApplicationContext in Spring is an ? *

○ abstract class

◉ interface

○ class

○ enum

✓ **Correct**   1/1 Points

10. Which annotation is used to identify specific bean when you have several implementations of same type to avoid ambiguity issues in injecting beans? *

○ @Required

○ @Bean

◉ @Qualifier

○ @Autowired

✓ **Correct**   1/1 Points

11. What are the 2 containers that we have in Spring IOC? *

☑ BeanFactory

☐ InitializingBean

☐ ApplicationFactory

☑ ApplicationContext

☐ BeanContext

✓ **Correct**   1/1 Points

12. Which of the given syntax is correct to get a new instance of a bean each time it is asked for? *

○ <bean id="foo" class="test.Foo" scope="singleton"/>

○ <bean id="foo" class="test.Foo" scope="request"/>

◉ <bean id="foo" class="test.Foo" scope="prototype"/>

○ <bean id="foo" class="test.Foo" />

○ <bean id="foo" class="test.Foo" scope=prototype/>

✓ **Correct**   1/1 Points

13. What is the abstract method that we have in RowMapper interface? *

○ maprow(ResultSet rs, int rowNumber)

◉ mapRow(ResultSet rs, int rowNumber)

○ mapRows(ResultSet rs, int rowNumber)

○ mapRows(ResultSet rs)

✓ **Correct**   1/1 Points

14. What is the subelement of **<bean>** is used for constructor injection? *

○ <property>

○ <constructor>

◉ <constructor-arg>

○ <ref>

○ <constructor arg>

○ <constructor_arg>

✓ **Correct**   1/1 Points

15. What is the Spring annotation tells that a method produces a bean to be managed by the Spring container? *

○ @BeanFactory

◉ @Bean

○ @Qualifier

○ @Configuration

✓ **Correct**   1/1 Points

16. Which of the class is used to contain the information about the database such as driver class name, connnection URL, username and password ? *

○ JdbcTemplate

◉ DriverManagerDataSource

○ DriverDataSource

○ JdbcDataSource

○ DriverManagerSource

✓ **Correct**   1/1 Points

17. Select all the implemented classes of ApplicationContext interface from the below in our Demos? *

☐ FileSystemClassPathXMLContext

☐ ClasspathXMLContext

☑ ClassPathXmlApplicationContext

☐ AnnotationConfigContext

☐ ClassPathSystemApplicationContext

☑ AnnotationConfigApplicationContext

✓ **Correct**   1/1 Points

18. Developer wants to instruct container to create new instance of a bean everytime when it requested. Pick up the scope which matches to the above requirement? *

○ session

○ request

◉ prototype

○ global session

○ singleton

✓ **Correct**   1/1 Points

19. What is the class-level annotation which indicates that the class has @Bean definition methods? *

○ @Autowired

◉ @Configuration

○ @PropertyResource

○ @ImportResource

✓ **Correct**   1/1 Points

20. Which annotation is used on a method that needs to be executed after dependency injection is done to perform any initialization? *

○ @Construct

○ @PreConstruct

◉ @PostConstruct

○ @Postconstruct

✓ **Correct**   1/1 Points

21. Which of the following is true? *

○ ApplicationContext implements BeanFactory

◉ ApplicationContext extends BeanFactory

○ BeanFactory extends ApplicationContext

○ BeanFactory implements ApplicationContext

✗ **Incorrect**   0/1 Points

22. \<bean id="dao" class="com.spring.ProductDao"\>
        \<property name="template" ref="jdbctemplate"\>
    \</bean\>

As per the above code what injection should have been done already for the property 'template' in ProductDao class? *

○ setter injection

◉ constructor injection

○ both of the above

○ none of the above

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