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iCompass - Competency Assessment and Baseline Framework

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Java\_Spring\_Topics\_A3 To A5\_Cloud1

Section:

* 1

**Time Left :** **01 : 30**

**List View**



*Active     Attempted     Not Attempted*

**Q2**

When there is a problem in connecting to the database using spring‘s Jdbc, Which of the following exception is thrown?

*Single Choice - Select one correct answer from the options list.*

CannotAcquireLockException

DataAccessResourceFailureException.

DataIntergrityViolationException.

DataRetrievalFailureException.

Output:

x

Spring

123456789101112131415161718192021222324252627282930

**Q1**

Select the root level package that is used for email support in Spring Framework?

*Single Choice - Select one correct answer from the options list.*

org.springframework.jms.mail.core

org.springframework.mail

org.springframework.jms.connection

org.springframework.jms.mail.converterction

Output:

**Q2**

When there is a problem in connecting to the database using spring‘s Jdbc, Which of the following exception is thrown?

*Single Choice - Select one correct answer from the options list.*

CannotAcquireLockException

DataAccessResourceFailureException.

DataIntergrityViolationException.

DataRetrievalFailureException.

Output:

**Q3**

Which is used to define the transactional semantics of AOP advice to be applied?

*Single Choice - Select one correct answer from the options list.*

<tx:advice/>

<tx:proxy/>

<aop:aspect/>

 <aop: scoped-proxy />

Output:

**Q4**

How would you define an Aspect?

*Single Choice - Select one correct answer from the options list.*

An aspect is a class that holds a Pointcut at a particular join point defining the type of advice to execute when that pointcut expression matches

Aspect is simple a class nothing more

A point in the execution of a program such as method name

Expression that is used to identify join-points

Output:

**Q5**

For spring to scan for aspects, it is enough to declare the bean with @Aspect annotation?

*Single Choice - Select one correct answer from the options list.*

TRUE

FALSE

Output:

**Q6**

Join point is always a method in Spring AOP.  
    State true or false.

*Single Choice - Select one correct answer from the options list.*

True.

False.

Output:

**Q7**

\_\_\_\_\_\_\_\_\_\_\_\_\_ interface provides a simple way for transactional code to control the transaction execution and query transaction status.

*Single Choice - Select one correct answer from the options list.*

Transaction isolation.

Transaction propagation.

Transaction Status.

Transaction timeout

Output:

**Q8**

Choose the correct implementation applied to the concrete class to make it transactional?

*Single Choice - Select one correct answer from the options list.*

public interface OrderService   
       {  
         void createOrder(Order order);  
         List queryByCriteria(Order criteria);  
      }

@Transaction  
     public interface OrderService {  
      void createOrder(Order order);  
      List queryByCriteria(Order criteria);  
      }

@AspectJ  
    public interface OrderService {  
  
    void createOrder(Order order);  
    List queryByCriteria(Order criteria);  
   }

@Transactional  
   public interface OrderService {  
  void createOrder(Order order);  
   List queryByCriteria(Order criteria);  
  }

Output:

**Q9**

Spring boot is Layered Architecture, similar like Spring Framework.

*True or False - Select the correct answer*

FALSE

TRUE

Output:

**Q10**

Which is the correct order of execution for the Spring bean life-cycle?

*Single Choice - Select one correct answer from the options list.*

@PostConstruct -> init()

init() -> @PostConstruct -> afterPropertiesSet()

afterPropertiesSet() -> @PostConstruct -> init()

None of the Above

Output:

**Q11**

What is the use of JdbcTemplate in spring?

*Single Choice - Select one correct answer from the options list.*

Class that manages connection to databases

Eliminates boiler plate code

Handles SQL Exception properly

All of the above

Output:

**Q12**

Different types of dependency injections which are provided by Spring framework are

*Single Choice - Select one correct answer from the options list.*

Setter and Constructor Injection

Setter,Constructor and Interface Injection

Setter and Interface Injection

None of them

Output:

**Q13**

Strategy interface used by DispatcherServlet for mapping incoming requests to individual controllers.

*Single Choice - Select one correct answer from the options list.*

Controllers

Dispatcher Servlet

ViewResolver

HandlerMapping

Output:

**Q14**

Which of the following elements is used for constructor injection

*Single Choice - Select one correct answer from the options list.*

constructor-value

constructorValue

consructor-arg

All of the above

Output:

**Q15**

Which of the following annotations can be used on fields, parameters or custom annotations?

*Single Choice - Select one correct answer from the options list.*

@autowired

@resource.

@Qualifier.

@component.

Output:

**Q16**

How do you declare a full 3 tier MVC layer in spring through annotations?

*Single Choice - Select one correct answer from the options list.*

@SpringMVC and <context:component-scan/>

@Controller, @Service, @Repository and <context:component-scan/>

@Controller, @Service, @DAO and <context:component-scan/>

None of the above

Output:

**Q17**

How to reference a bean from another bean in Spring?

*Single Choice - Select one correct answer from the options list.*

We use the <property> element to set the properties that reference other beans. The <ref> subelement of <property> like this:  
  
 <bean id="foo"  
   class="com.Foo">  
  <property name="bar">  
   <ref bean="bar"/>  
  </property>  
 </bean>

We use the <properties> element to set the properties that reference other beans. The <ref> subelement of < properties > like this:  
  
 <bean id="foo"  
   class="com.Foo">  
  <properties name="bar">  
   <ref bean="bar"/>  
  </ properties >  
 </bean>

We use the <parent> element to set the properties that reference other beans. The <ref> subelement of < parent > like this:  
  
 <bean id="foo"  
   class="com.Foo">  
  < parent name="bar">  
   <ref bean="bar"/>  
  </ parent >  
 </bean>

We use the <child> element to set the properties that reference other beans. The <ref> subelement of < child > like this:  
  
 <bean id="foo"  
   class="com.Foo">  
  < child name="bar">  
   <ref bean="bar"/>  
  </ child >  
 </bean>

Output:

**Q18**

How to configure JNDI instead of datasource in spring applicationcontext.xml?

*Single Choice - Select one correct answer from the options list.*

You can configure JNDI instead of datasource in spring applicationcontext.xml using "org.springframework.jndi.JndiObjectFactoryBean". For Example:  
  
< bean id="dataSource" class="org.springframework.jndi.JndiObjectFactoryBean">  
  <property name="className">  
    <values>java:comp/env/jdbc/appfuse</values>  
  </property>  
< /bean>

You can configure JNDI instead of datasource in spring applicationcontext.xml using "org.springframework.jndi.JndiObjectFactoryBean". For Example:  
  
< bean name="dataSource" class="org.springframework.jndi.JndiObjectFactoryBean">  
  <property name="viewClass">  
    <value>java:comp/env/jdbc/appfuse</value>  
  </property>  
< /bean>

You can configure JNDI instead of datasource in spring applicationcontext.xml using "org.springframework.jndi.JndiObjectFactoryBean". For Example:  
  
< bean id="dataSource" class="org.springframework.jndi.JndiObjectFactoryBean">  
  <properties name="jndiDataSource">  
    <value>java:comp/env/jdbc/appfuse</value>  
  </properties>  
< /bean>

You can configure JNDI instead of datasource in spring applicationcontext.xml using "org.springframework.jndi.JndiObjectFactoryBean". For Example:  
  
< bean id="dataSource" class="org.springframework.jndi.JndiObjectFactoryBean">  
  <property name="jndiName">  
    <value>java:comp/env/jdbc/appfuse</value>  
  </property>  
< /bean>

Output:

**Q19**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is used to wrap the target DataSource to add awareness for spring managed transactions in J2EE Server.

*Single Choice - Select one correct answer from the options list.*

TransactionAwareDataSourceProxy .

DataSourceTransactionManager.

SmartDataSource.

AbstractDataSource.

Output:

**Q20**

\_\_\_\_\_\_\_\_\_\_\_\_\_ enables you to access JavaBeans (classes) that are instantiated, wired and managed by the Spring container.

*Single Choice - Select one correct answer from the options list.*

SessionFactory.

SessionFacade

BeanFactroy

none of the above.

Output:

**Q21**

Statement A:   
The key to the Spring transaction abstraction is the notion of a transaction strategy.   
Statement B:   
A transaction strategy is defined by the      
               org.springframework.transaction.PlatformTransactionManager interface.

*Single Choice - Select one correct answer from the options list.*

Statement A is true

Statement B is true

Both the statements are false

Both the statements are true

Output:

**Q22**

Which of the following element is used to inject a value into a static factory method?

*Single Choice - Select one correct answer from the options list.*

<property>

<static>

<factory-bean>

<constructor-arg>

Output:

**Q23**

Select the lifecycle interfaces in spring?(Choose Two)

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

InitializingBean.

DisposableBean.

InitBean.

DestroyBean.

Output:

**Q24**

The init-method, destroy-method options are better than having a class implement InitializingBean, DisposableBean interfaces.True or false

*Single Choice - Select one correct answer from the options list.*

TRUE

FALSE

Output:

**Q25**

Which is the correct way to configure server port in spring boot application

*Single Choice - Select one correct answer from the options list.*

add property 'server.port' in application.properties in /src/main/resources

set boot.server.port as a system property using JVM command line option

adding an entry in conf/context.xml of embedded container

add property server: port: 8080 in application.properties in /src/main/resources

Output:

**Q26**

What is the difference between lazy and eager fetching in Spring?

*Single Choice - Select one correct answer from the options list.*

Lazy init fetches the collection of records on demand while eager fetching fetches all the collection records

Lazy initialization helps improve the performance of the application as it saves memory while eager fetching is useful but memory intensive

Both A and B

None of the above

Output:

**Q27**

Which build tools are supported by  
Spring Boot framework out of box

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

Maven

Gradle

Ant

Make

Output:

**Q28**

Select the scopes of a bean available with Bean Factory: (Choose 2)

*Multiple Choice - This may have multiple correct answers. Select required answer(s) from the options list.*

Singleton.

Prototype

Request.

Session.

Output:

**Q29**

What is the use of @PathVariable annotation in Spring REST?

*Single Choice - Select one correct answer from the options list.*

No such annotation exist in Spring

Used to bind the REST url parameters

Configuration annotation used to configure relative and absolute path

None of the above

Output:

**Q30**

Consider the following code   
. <tx:advice id="txAdvice" transaction-manager="txManager">   
<tx:attributes>   
  <tx:method name="\*" read-only="true" rollback-for="NoEmployeeFound"/>   
</tx:attributes>   
</tx:advice>  
Based on the sample code above, the rollback-for attribute within the <tx:method> element causes Spring to rollback a transaction if a(n):

*Single Choice - Select one correct answer from the options list.*

Checked exception of the class "NoEmployeeFound" or any unchecked exception or error is thrown.

checked exception of the class "NoEmployeeFound" is thrown.

throwable containing the message "NoEmployeeFound" is thrown.

unchecked exception of the class "NoEmployeeFound" or any checked exception or error is thrown.

Output:

x

Spring

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Previous

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2 out of 30 Submit Assessment

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