Java\_Spring\_Topics\_A3 To A5\_Cloud1

Q1

Spring provides which of the following mechanisms of instantiating a bean:

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

using the constructors

using static factory methods

using a factory bean

using BeanFactory

Output: using a factory bean

using BeanFactory

Q2

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: org.springframework.mail

Q3

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:

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: 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

Q5

In DAO, The implementation of an application object requires only hibernate session factory.  
This can be provided as a simple bean reference from the spring application context.   
Select the valid bean implementation for the above scenario:

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

<beans>  
   <bean id=”emplDao” class=”emp.empDao”>  
   <property name=”sessionfactory” ref=”mysessionfactory”>  
   </bean>  
   </beans>

<beans id=”emplDao” class=”emp.empDao”>  
   <property name=”sessionfactory” ref=”mysessionfactory”>  
   </beans>

<beans>  
  < bean id=”emplDao” class=”emp.empDao”>  
   <property name=”\*” ref=”mysessionfactory”>  
 </bean>  
 </beans>

<beans>  
     <property name=”\*” ref=”mysessionfactory”>  
 </bean>  
 </beans>

Output: <beans>  
   <bean id=”emplDao” class=”emp.empDao”>  
   <property name=”sessionfactory” ref=”mysessionfactory”>  
   </bean>  
   </beans>

Q6

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: DataAccessResourceFailureException.

Q7

What is the purpose of HandlerMappings in spring?

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

Maps the incoming request to the relevant controller

Manages the traffic for we requests

Maps the type of view that an application would display

Configures Spring for MVC support

Output: Maps the incoming request to the relevant controller

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

Q9

What is the client class provided by Spring to test Spring Web services?

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

WebTemplate

SpringTemplate

WebServiceTemplate

RestTemplate

Output: WebTemplate

Q10

BeanFactory is used to create associations between collaborating objects as they are instantiated. This removes the burden of configuration from bean itself and the beans client.  
State true or false

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

True.

False.

Output: True

Q11

Following property is set for what reason  
spring.autoconfigure.exclude=  
my.xyz.SomeAutoConfig

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

To exclude unnecessary or misconfigured   
Auto configurations via  
properties

Reconfiguring   
AutoConfiguration via  
properties

Overriding conditions

For completely  
custom

Autoconfiguration

Output: To exclude unnecessary or misconfigured   
Auto configurations via  
properties

Q12

Which dependency need to be  
mentioned to enable Spring MVC   
module in an application

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

spring-boot-starter-data-jpa

spring-boot-starter-web

spring-boot-starter-test

spring-boot-starter-tomcat

Output: spring-boot-starter-web

Q13

Spring has its own Model View Controller (MVC), but it can be integrated with other web frameworks like Struts. State true or false

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

TRUE

False.

Output: true

Q14

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: True.

Q15

Choose the correct statements about the spring framework: (Choose all that apply)

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

Applications takes care of Object persistence

Spring has support for AOP

Spring does not support the concept of inversion of control.

Spring supports inversion of control so that the bean dependency can be solved            automatically

Output: 1 2 4

Q16

Which of the following class is used to manage the database connection in spring’s JDBC API?

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

DataSourceUtils.

SmartDataSource.

AbstractDataSource.

SingleConnectionDataSource.

Output: DataSourceUtils.

Q17

What base class is used to resolve Spring views?

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

UIResolver

FrontEndResolver

ViewResolver

SpringViewResolver

Output: ViewResolver

Q18

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: All of the above

Q19

Consider the following scenario:  
For a method updateUser , we dont want the rollback for UserNotFoundException.  
what are the changes to be done in the configuration file?   
      <tx:advice id="txAdvice">  
      <tx:attributes>  
     <tx:method name="updateUser"/>  
      <tx:method name="\*"/>  
     </tx:attributes>  
     </tx:advice>

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

replace <tx:method name="updateUser"/> with   
<tx:method name="updateUser" no-rollback-for="UserNotFoundException"/>

replace <tx:method name="updateUser"/> with   
<tx:method name="updateUser,-UserNotFoundException/>

replace <tx:method name="updateUser"/> with   
<tx:method name="updateUser,+UserNotFoundException/>

replace <tx:method ="updateUser"/> with   
<tx:method name="updateUser" no-rollback-for="UserNotFoundException"/>

Output: replace <tx:method ="updateUser"/> with   
<tx:method name="updateUser" no-rollback-for="UserNotFoundException"/>

Q20

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

Q21

Statement A:   
Unit Tests are a series of tests which verifies each component of your application.  
Statement B:   
Unit Test not only to test successes, but also to test failures.

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

Statement A and B are true

.

Statement A and B are false.

Statement A is true and B is false.

Statement A is false and b is true.

Output: Statement A and B are true

Q22

Which controller in Spring MVC is used to auto populate a form bean from the request?

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

AbstractFormController

AbstractUrlViewController.

BaseCommandController.

AbstractController

Output: AbstractFormController

Q23

Choose the correct Syntax from the following :

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

int rowCount = this.jdbcTemplate.queryForInt ("select count (0) from t\_accrual");

int rowCount = this.jdbcTemplate.get("select count (0) from t\_accrual");

int rowCount = this.jdbcTemplate.query("select count(0) from t\_accrual");

int rowCount = this.jdbcTemplate.query(‘select count(0) from t\_accrual’);

Output: int rowCount = this.jdbcTemplate.query("select count(0) from t\_accrual");

Q24

Which of the following statements about Spring's declarative transaction management is FALSE?

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

The Spring Framework enables declarative transaction management to be applied to any class, not merely special classes such as EJBs

Unlike EJB CMT and JTA approaches, the Spring Framework's declarative transaction management works with JDBC and certain ORM tehcnologies.

The Spring Framework supports propagation of transaction contexts across remote calls, unlike certain commercial application servers.

The Spring Framework offers declarative rollback rules; which does not occur in EJB.

Output:

Q25

Which of the following is not the types of Advice?

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

Before advice.

After returning advice.

After completion advice.

After advice.

Output: After completion advice.

Q26

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: InitializingBean.

DisposableBean.

Q27

In Spring MVC if the DispatcherServlet is configured using servlet-name as "abc", then which xml file is used to load the Spring application context.

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

abc.xml

abc-context.xml

abc-servlet.xml

None of the above

Output: abc-servlet.xml

Q28

Which tags deals configuring collections, referencing constants in spring configuration file?

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

Util

J2ee

JMS

AOP

Output: Util

Q29

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: Both the statements are true

Q30

<bean id="employee" class="com.acme.hr.Employee">   
<property name="timecard"><  
ref bean="timesheet"/>  
</property>   
<property name="name" value="John Doe"/>   
</bean>   
  
<bean id="timesheet" class="com.acme.hr.Timesheet"/>   
<bean id="timeEntry" class="com.acme.hr.TimeEntry" scope="prototype"/>   
  
Based on the sample code above, if the bean factory is asked for each defined bean three times, how many bean instances will Spring be managing in the bean factory?

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

1.0

2.0

5.0

6.0

Output: 1.0