Spring Professional v5.0 Exam

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Question 1

Which ones are true about dependency autowiring? Select all that apply.

Options:

A. There can be multiple constructor methods annotated with @Autowired, but only 1 of them can be set as required.

B. If dependencies annotated with @Required are not set, a corresponding exception is raised.

C. If the Autowired annotation is used on well-known dependencies like BeanFactory and ApplicationContext, these dependencies like BeanFactory and ApplicationContext, must be explicitly defined in the context (e.g. defined in XML-based configuration).

D. MessageSource interface is automatically resolved, with no additional setup necessary, other than putting the 'Autowired' annotation.

Answer: A, B, D

Explanation:
If the Autowired annotation is used on well-known dependencies like BeanFactory and ApplicationContext, these dependencies like BeanFactory and ApplicationContext, do not need to be explicitly defined in the context (e.g. in XML-based configuration).
Reference
@Autowired
* http://docs.spring.io/spring-framework/docs/4.0.9.RELEASE/spring-framework-reference/html/beans.html#beans-autowired-annotation
* Spring Framework Reference Documentation 4.0.9.RELEASE

Question 2

Which of these is the one being described below? Select the one that applies best.
Its advantages include: faster development, lesser repetitive SQL code, and less if any at all need to deal

with vendor-specific SQL and database issues. Its disadvantages include: a little more initial learning curve needed, and can be a little slower than SQL queries when it comes to complex queries.

Options:

A. AOP

B. JDBC

C. OXM

D. ORM

Answer: D

Question 3

Fill in the blanks.
The term _____ usually represents a set of actions treated as one and undone also as one if needed.

The _____ mode of JDBC should be disabled so that sets of actions can be undone as one.
Select the one that applies best.

Options:

A. JTA, concurrency

B. auto-commit, unit of work

C. transaction demarcation, rollback

D. unit of work, auto-commit

Answer: D

Explanation:
Reference
Using Transactions
* https://docs.oracle.com/javase/tutorial/jdbc/basics/transactions.html
* The Java Tutorials
13.1.1. Unit of work
* http://docs.jboss.org/hibernate/orm/4.3/manual/en-US/html/ch13.html#transactions-basics-uow
* Hibernate Reference Documentation 4.3.9.Final

Question 4

In Spring MVC, which of these can be the return type of a method annotated with @RequestMapping? Select all that apply.

Options:

A. ModelAndView

B. Model

C. void

D. String

Answer: A, B, C, D

Explanation:
Reference
URI Template Patterns
* http://docs.spring.io/spring-framework/docs/4.0.9.RELEASE/spring-framework-reference/html/mvc.html#mvc-ann-requestmapping-uri-templates
* Spring Framework Reference Documentation 4.0.9.RELEASE

Question 5

The Spring container gets its instructions by consuming the configuration metadata. Which of these forms can represent the Spring configuration metadata? Choose all that apply.

Options:

A. XML-based

B. Annotation-based

C. Java-based

D. Property-file-based

Answer: A, B, C

Explanation:
Reference
4.2.1. Configuration metadata
* http://docs.spring.io/spring-framework/docs/4.0.9.RELEASE/spring-framework-reference/html/beans.html#beans-factory-metadata
* Spring Framework Reference Documentation 4.0.9.RELEASE

Question 6

Fill in the blanks. _____ expresses the usage of an EntityManager and its associated persistence context. This is also the annotation in the blank in the code below.

_____
private EntityManager entityManager;

Options:

A. @PersistenceUnit

B. @PersistenceContext

C. @EntityManagerResource

D. @Entity

Answer: B

Explanation:
Below is an example.
@Repository
public class JpaMyService implements MyService {
@PersistenceContext
private EntityManager entityManager;
.....
}
There is no @EntityManagerResource for this purpose.
Reference
Annotation Type PersistenceContext
* http://docs.oracle.com/javaee/6/api/javax/persistence/PersistenceContext.html
* Java Platform, Enterprise Edition 6 API Specification

Question 7

Which of these are true about creating a deployable war file in Spring Boot? Select all that apply.

Options:

A. When creating a 'war' file which will be deployed into a server, it is best to add the 'external' setting below, to avoid the server files being included in the 'war'.

<dependency>
<groupId>org.springframework.boot</groupId>
<artifactId>spring-boot-starter-tomcat</artifactId>
<scope>external</scope>
</dependency>

B. If you use Maven and spring-boot-starter-parent, you must change the pom.xml 'packaging' setting to below.

<packaging>war</packaging>

C. If you use Maven and spring-boot-starter-parent, you must change the pom.xml 'artifact' setting to below.

D. The first step in producing a deployable war file is to provide a SpringBootServletInitializer subclass.

Incorrect. Scroll down for further details.

Answer: B, D

Explanation:
When creating a 'war' file which will be deployed into a server, it is best to add the 'provided' setting below, to avoid the server files being included in the 'war'.

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-tomcat</artifactId>

<scope>provided</scope>

</dependency>

If you use Maven and spring-boot-starter-parent, you must change the pom.xml 'packaging' setting to below.

<packaging>war</packaging>

There is no related 'artifact' or 'non-embedded' setting needed.

The first step in producing a deployable war file is to provide a SpringBootServletInitializer subclass.

Question 8

On which of these database system isolation levels can phantom reads occur? Select all that apply.

Options:

A. Serializable

B. Repeatable reads

C. Read committed

D. Read uncommitted

Answer: B, C, D

Explanation:
Reference
Enum Isolation
*   h t t p : / / d o c s . s p r i n g . i o / a u t o r e p o / d o c s / s p r i n g / 4 . 0 . 9 . R E L E A S E / j a v a d o c -
api/org/springframework/transaction/annotation/Isolation.html
* Spring Framework 4.0.9.RELEASE API
Isolation (database systems)
* http://en.wikipedia.org/wiki/Isolation_%28database_systems%29#Isolation_levels
* Wikipedia

Question 9

Which of these is supported as an embedded container in Spring Boot? Select all that apply.

Options:

A. Tomcat

B. Jetty

C. Undertow

D. Azure

Answer: A, B, C

Explanation:
Category
Spring Boot / What embedded containers does Spring Boot support? What does @EnableAutoConfiguration do? What about @SpringBootApplication?

Question 10

Which of these is true about the DataSource interface?

Options:

A. Spring obtains a database connection through an implementation DataSource.

B. The DataSource interface is part of the Spring Framework.

C. Spring's DriverManagerDataSource implementation, provides pooling.

D. All of the above.

Answer: A

Explanation:
DataSource is part of the JDBC specification.
Spring's DriverManagerDataSource implementation, does not provide pooling.
It returns a new Connection from every getConnection call. Connections can be reused (e.g. pooled) when tools like the following are used: DBCP, C3P0, etc.
Reference
13.3.1. DataSource
*   http://docs.spring.io/spring-framework/docs/4.0.9.RELEASE/spring-framework-reference/html/jdbc.html#jdbc-datasource
* Spring Framework Reference Documentation 4.0.9.RELEASE

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