Spring Core Quesitons

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Question 1

Which of the following is true regarding the @Autowired annotation?

Options:

A. It is possible to provide all beans of a particular type from the ApplicationContext by adding the annotation to a field or method that expects an array of that type.

B. Typed Maps can be autowired as long as the expected key type is String.

C. By default, the autowiring fails whenever zero candidate beans are available.

D. All of the above.

Answer: D

Explanation:
lass MovieRecommender {

@Autowired
private MovieCatalog[] movieCatalogs;

// ...
}
B:public class MovieRecommender {

private Map<String, MovieCatalog> movieCatalogs;

@Autowired
public void setMovieCatalogs(Map<String, MovieCatalog> movieCatalogs) {
this.movieCatalogs = movieCatalogs;

}

// ...
}
C: This is true. If no candidate are available, an exception will be thrown.
D: They are all true.

Question 2

By default, when you use XmlWebApplicationContext, the configuration will be taken from "/WEB-INF/applicationContext.xml" for the root context, and "/WEB-INF/test-servlet.xml" for a context with the namespace "test-servlet". Which of those pieces of code can override the default config location?

Options:

A. <servlet>
<servlet-name>accounts</servlet-name>
<servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
<init-param>
<param-name>contextConfigLocation</param-name>
<param-value>
/WEB-INF/mvc-config.xml
</param-value>
</init-param>
<load-on-startup>1</load-on-startup>
</servlet>

B. <context-param>

</context-param>
<context-param>
<param-name>spring.profiles.active</param-name>
<param-value>jpa</param-value>
</context-param>

C. <listener>
<listener-class>
<param-name>contextConfigLocation</param-name>
<param-value>/WEB-INF/app-config.xml</param-value>

</listener-class>
</listener>

D. none of the above

Answer: A,B

Explanation:
g location defaults can be overridden via the "contextConfigLocation" context-param of ContextLoader.
B:The config location defaults can be overridden via the servlet init-param of FrameworkServlet.
C:The listener section is used to define a ContextLoaderListener and it does not impact the application context location.
D:A and B are true.

Question 3

Which are valid method signatures for the method ClassPathXmlApplicationContext.getBean():

Options:

A. Object getBean(String name) throws BeansException.

B. <T> T getBean(String name, Class<T> requiredType) throws BeansException.

C. <T> T getBean(String name, String requiredType) throws BeansException.

D. <T> T getBean(Class<T> requiredType) throws BeansException.

E. All of the above.

Answer: A,B,D

Explanation:
n instance, which may be shared or independent, of the specified bean name.
B: Behaves the same as getBean(String), but provides a measure of type safety by throwing a BeanNotOfRequiredTypeException if the bean is not of the required type.
C: This method signature does not exist.
D: Return the bean instance that uniquely matches the given object type, if any.
E: Only A,B,D are true.

Question 4

Which of these is the best description of an AOP Aspect?

Options:

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. Code to be executed at a Join Point that has been Selected by a Pointcut.

D. A module that encapsulates pointcuts and advice.

E. None of the above.

Answer: D

Explanation:
a Join Point.
B: This is a Pointcut.
C: This is an Advice.
D: This is an Aspect.
E: D is true.

Question 5

Which of the following are false regarding Spring AOP?

Options:

A. It can advice any Join Points.

B. Can only apply aspects to Spring Beans.

C. Spring adds behaviour using dynamic proxies if a Join Point is declared on a class.

D. If a Join Point is in a class with no interface, Spring will use CGLIB for weaving.

E. CGLIB proxies can be applied to final classes or methods.

Answer: A,C,E

Explanation:
t can advice only public Join Points.

B: True. This one of the limitation.
C: False. Spring uses dynamic proxies if a Join Point is declared on an interface.
D: True. CGLIB is used for weaving class aspects.
E: False. It cannot be applied to final classes or methods.

Question 6

Which of the following is false regarding the following code and HttpInvokerProxyFactoryBean?

```
<bean id="httpInvokerProxy"
class="org.springframework.remoting.httpinvoker.HttpInvokerProxyFactoryBean">
<property name="serviceUrl" value="http://remotehost:8080/remoting/AccountService"/>
<property name="serviceInterface" value="example.AccountService"/>
</bean>
```

Options:

A. This is client-side code.

B. Spring will translate your calls to HTTP POST requests.

C. HttpInvokerProxy uses Commons HttpClient by default.

D. Spring will send HTTP POST request to the defined URL which is http://remotehost:8080/remoting/AccountService.

E. The service URL must be an HTTP URL exposing an HTTP invoker service.

Answer: C

Explanation:
the HttpInvokerProxy uses the J2SE HTTP functionality, but you can also use the Commons HttpClient by setting the httpInvokerRequestExecutor property:

```
<property name="httpInvokerRequestExecutor">
<bean class="org.springframework.remoting.httpinvoker.CommonsHttpInvokerRequestExecutor"/>
</property>
```

This is a difficult question but we found something similar on the real exam.

Question 7

Which of the following is true regarding the annotation @RequestParam in the following piece of code:

```
@Controller
@RequestMapping("/petedit")
@SessionAttributes("site")
public class PetSitesEditController {

// ...

@RequestMapping("/remove")
public void removeSite(@RequestParam("site") String site, ActionResponse response) {
this.petSites.remove(site);
response.setRenderParameter("action", "list");
}

// ...
}
```

Options:

A. The @RequestParam annotation is used to extract a parameter from the HTTP response and bind them to a method parameter.

B. The @RequestParam annotation can automatically perform type conversion.

C. Parameters using this annotation are required by default.

D. It differs from @PathVariable because with the latest you can extract value directly from the request URL using the URI Templates.

E. All of the above.

Answer: B,C,D

Explanation:

he @RequestParam annotation is used to bind request parameters to a method parameter in your controller. This @Controller will be an entry point for mapping HTTP requests.

B: This is true. In this case, a request of the form http://localhost:8080/...../petedit/remove?site=xxx would convert xxx in a string and assign it to the method parameter "site".

C: This is true as well, but you can specify that a parameter is optional by setting @RequestParam's annotation's 'required' attribute to false (e.g., @RequestParam(value="id", required=false)) making it

optional.
D: This is true as well. @PathVariable can take advance from the usage of placeholders that will extract the method parameter directly from the request URL. For instance:

```
@Controller
@RequestMapping(value = "/pets/{petId}", method = RequestMethod.GET, produces="application/json")
@ResponseBody
public Pet getPet(@PathVariable String petId, Model model) {
// implementation omitted
}
```

E: Only B,C and D are true so this one is false.

Question 8

Which one's are true regarding the following piece of code ?

```
<tx:annotation-driven/>

<bean id="txManager" class="org.springframework.jdbc.datasource.DataSourceTransactionManager">
<property name="dataSource" ref="dataSource"/>
</bean>
<jdbc:embedded-database id="dataSource">
<jdbc:script location="classpath:rewards/testdb/schema.sql"/>
<jdbc:script location="classpath:rewards/testdb/test-data.sql"/>
</jdbc:embedded-database>
```

Options:

A. It is declaring a container-managed datasource (via JNDI).

B. DataSourceTransactionManager it is a subclass of AbstractPlatformTransactionManager.

C. It is defining a Transaction manager with id txManager for supporting transaction management.

D. It is defining a bean Post-processor that proxies @Transactional annotated bean <tx:annotation-driven/>.

E. None of the above.

Answer: B,C,D

Explanation:
t is declaring a local datasource using the tags <jdbc:embedded-database> ... </jdbc:embedded-

database>. The preceding configuration creates an embedded HSQL database populated with SQL from schema.sql and testdata.sql resources in the classpath. The database instance is made available to the Spring container as a bean of type javax.sql.DataSource. This bean can then be injected into data access objects as needed.
B: True. It is a PlatformTransactionManager implementation for a single JDBC DataSource. It binds a JDBC Connection from the specified DataSource to the current thread, potentially allowing for one thread-bound Connection per DataSource.
C: True, this is needed for providing Spring transaction support.
D: True. This is the most tricky question because the declaration of the bean post processor it is hidden in the tag <tx:annotation-driven/>. Remember that you can mark any method with the @Transactional annotation but the mere presence of the @Transactional annotation is not enough to activate the transactional behavior. <tx:annotation-driven/> element switches on the transactional behavior.
E: A is not true so this does not apply.

Question 9

The method "convertAndSend" of the jmsTemplate interface, it is used to send an object to a destination, converting the object to a JMS message. Which of the following are valid definitions of this method?

Options:

A. convertAndSend(Destination destination, Object message).

B. convertAndSend(Object message).

C. convertAndSend(String destinationName, Object message).

D. convertAndSend(Object message, Destination destination).

E. All of the above.

Answer: A,B,C

Explanation:
given object to the specified destination, converting the object to a JMS message with a configured MessageConverter.
B: Send the given object to the default destination, converting the object to a JMS message with a configured MessageConverter.
C: Send the given object to the specified destination, converting the object to a JMS message with a configured MessageConverter.
D: There is no such method definition. This is a compiler error.

E: Only A,B,C are true.

Question 10

When using JMX which one is false regarding the following piece of configuration?

```
<beans>


<bean id="exporter" class="org.springframework.jmx.export.MBeanExporter">
<property name="beans">
<map>
<entry key="bean:name=testBean1" value-ref="testBean"/>
</map>
</property>
</bean>

<bean id="testBean" class="org.springframework.jmx.JmxTestBean">
<property name="name" value="TEST"/>
<property name="age" value="100"/>
</bean>

</beans>
```

Options:

A. The bean "exporter" will export a bean to the JMX MBeanServer.

B. "testBean" bean is exposed as an MBean under the ObjectName bean:name=testBean1.

C. The bean "exporter" can be lazily initialized.

D. By default, all public properties of the bean are exposed as attributes and all public methods are exposed as operations.

E. All of the above.

Answer: A,B,D

Explanation:
exactly the aim of the exporter. The bean "testBean" will be exported as an MBean with name of

"testBean1".
B: This is true. The key of each entry in the beans Map is used as the ObjectName for the bean referenced by the corresponding entry value by default.
C: This is false. Exporter bean must not be lazily initialized if the exporting is to happen. If you configure a bean with the MBeanExporter that is also configured for lazy initialization, then the MBeanExporter will not break this contract and will avoid instantiating the bean. Instead, it will register a proxy with the MBeanServer and will defer obtaining the bean from the container until the first invocation on the proxy occurs.
D: This is true. The default policy is to expose all properties and all public methods of the bean.
E: False. Only C is false of the above so this is false as well.