**Spring Online Test 01**

Q - Expression Language/ SpEL was introduced in which version of spring framework.

[A - 1.0](javascript:void(0);)

[B - 2.0](javascript:void(0);)

C - 3.0

[D - 4.0](javascript:void(0);)

**Answer : C**

**Explanation**

Expression Language/ SpEL was introduced in 3.0 version of spring framework.

Q - What are the ways to access Hibernate by using Spring?

[A - Inversion of Control with a Hibernate Template and Callback.](javascript:void(0);)

[B - Extending HibernateDAOSupport and Applying an AOP Interceptor node.](javascript:void(0);)

C - Both of above.

[D - None of above.](javascript:void(0);)

**Answer : C**

**Explanation**

Hibernate can be accessed by both ways either using Inversion of Control with a Hibernate Template and Callback or extending HibernateDAOSupport and applying an AOP Interceptor node.

Q - What is Introduction?

[A - An introduction represents a point in your application where you can plug-in AOP aspect.](javascript:void(0);)

[B - This is used to inject values in objects.](javascript:void(0);)

[C - This is not invoked during program execution by Spring AOP framework.](javascript:void(0);)

[D - An introduction allows you to add new methods or attributes to existing classes.](javascript:void(0);)

Q - Which are the modules of core container?

A - Beans, Core, Context, SpEL

[B - Core, Context, ORM, Web](javascript:void(0);)

[C - Core, Context, Aspects, Test](javascript:void(0);)

[D - Bean, Core, Context, Test](javascript:void(0);)

**Answer : A**

**Explanation**

Beans, Core, Context, SpEL are the modules in core container.

Q - Which class is used to map a database row to a java object in spring?

[A - ResultSet](javascript:void(0);)

B - RowMapper

[C - RowSetMapper](javascript:void(0);)

[D - ResultSetMapper](javascript:void(0);)

**Answer : B**

**Explanation**

RowMapper class is used to map a database row to a java object in spring.

Q - What is true about <props> collection configuration elements?

[A - This helps in wiring a list of values, allowing duplicates.](javascript:void(0);)

[B - This helps in wiring a list of values but without any duplicates.](javascript:void(0);)

[C - This can be used to inject a collection of name-value pairs where name and value can be of any type.](javascript:void(0);)

D - This can be used to inject a collection of name-value pairs where the name and value are both Strings.

**Answer : A**

**Explanation**

<props> tag is used to inject a collection of name-value pairs where name and value are both Strings.

Q - What is byType mode of autowiring?

[A - Default setting which meas no autowiring and you should use explicit bean reference for wiring.](javascript:void(0);)

[B - Autowiring by property name. Spring tries to match and wire its properties with the beans defined by the same names in the configuration file.](javascript:void(0);)

[C - Spring first tries to wire using autowire by constructor, if it does not work, Spring tries to autowire by byType.](javascript:void(0);)

D - Autowiring by property type. Spring tries to match and wire a property if its type matches with exactly one of the beans name in configuration file.

**Answer : D**

**Explanation**

byType mode of autowiring is autowiring by property type. Spring tries to match and wire a property if its type matches with exactly one of the beans name in configuration file.

Q - If a bean is scoped to HTTP session, scope is

[A - global-session](javascript:void(0);)

B - session

[C - prototype](javascript:void(0);)

[D - request](javascript:void(0);)

**Answer : B**

**Explanation**

If a bean is scoped to HTTP session, scope is session.

Q - Which are the IoC containers in Spring?

A - BeanFactory, ApplicationContext

[B - BeanFactory, ApplicationContext, IocContextFactory](javascript:void(0);)

[C - BeanFactory, BeanContext, IocContextFactory](javascript:void(0);)

[D - BeanFactory, ApplicationContext, BeanContext](javascript:void(0);)

**Answer : A**

**Explanation**

BeanFactory, ApplicationContext classes acts as IoC containers in Spring.

Q - What is Spring MVC framework?

[A - Spring MVC framework is Model-Value-Class architecture and used to bind model data with values.](javascript:void(0);)

B - The Spring web MVC framework provides model-view-controller architecture and ready components that can be used to develop flexible and loosely coupled web applications.

[C - Spring MVC framework is used for Transaction management for Web Applications.](javascript:void(0);)

[D - Spring MVC framework is used for AOP for Web Applications.](javascript:void(0);)

**Answer : B**

**Explanation**

The Spring web MVC framework provides model-view-controller architecture and ready components that can be used to develop flexible and loosely coupled web applications.

Q - What is the scope of stateless bean?

[A - global-session](javascript:void(0);)

B - singleton

[C - prototype](javascript:void(0);)

[D - request](javascript:void(0);)

**Answer : B**

**Explanation**

Stateless bean is of singleton scope.

Q - How do you turn on annotation wiring?

[A - Add <annotation-context:config /> to bean configuration.](javascript:void(0);)

[B - Add <annotation-config /> to bean configuration.](javascript:void(0);)

[C - Add <annotation-context-config /> to bean configuration.](javascript:void(0);)

D - Add <context:annotation-config/> to bean configuration.

**Answer : D**

**Explanation**

Add <context:annotation-config/> to bean configuration to turn on annotation wiring.

Q - What does @Required annotation mean?

[A - This annotation indicates that bean property must be populated by the user.](javascript:void(0);)

[B - This annotation indicates that bean property is required while saving the bean data to database.](javascript:void(0);)

C - This annotation simply indicates that the affected bean property must be populated at configuration time, through an explicit property value in a bean definition or through autowiring.

[D - This annotation indicates that bean property is required while serializing the bean.](javascript:void(0);)

**Answer : C**

**Explanation**

@Required annotation simply indicates that the affected bean property must be populated at configuration time, through an explicit property value in a bean definition or through autowiring.

Q - Can be bean be configured to have an inner bean?

A - True

[B - False](javascript:void(0);)

**Answer : A**

**Explanation**

A bean can be configured to have an inner bean.

Q - How bean life cycle can be controlled?

[A - Using init() only](javascript:void(0);)

[B - Using InitializingBean class only](javascript:void(0);)

[C - Using DisposableBean class only](javascript:void(0);)

D - Using All of above

**Answer : D**

**Explanation**

Life cycle of a bean can be controlled using init() method or using InitializingBean / DisposableBean classes.

Q - What is global-session scope?

A - This scopes a bean definition to an HTTP Application/ Global session.

[B - This scopes the bean definition to Spring IoC container.](javascript:void(0);)

[C - This scopes the bean definition to HTTP request.](javascript:void(0);)

[D - This scopes the bean definition to HTTP Session.](javascript:void(0);)

**Answer : A**

**Explanation**

global-session scope instructs Spring IoC container to create a instance per HTTP application.

Q - Which is the way to provide configuration metadata to spring?

[A - XML Based configuration file.](javascript:void(0);)

[B - Annotation based configuration.](javascript:void(0);)

[C - Java based configuration.](javascript:void(0);)

D - All of the above.

**Answer : D**

**Explanation**

All of the above statements are correct.

Q - What is true about cross-cutting concerns?

A - The functions that span multiple points of an application are called cross cutting concerns.

[B - Cross-cutting concerns are conceptually separate from the application's business logic.](javascript:void(0);)

[C - Logging is one of the examples of cross cutting concerns.](javascript:void(0);)

[D - All of the above.](javascript:void(0);)

**Answer : A**

**Explanation**

Cross-cutting concerns are the functions that span multiple points of an application.

Q - What is the scope of stateful bean?

[A - session](javascript:void(0);)

[B - global-session](javascript:void(0);)

C - prototype

[D - request](javascript:void(0);)

**Answer : C**

**Explanation**

Stateful bean is of prototype scope.