1. **Which of the following statements is true?**
   * 1. **ApplicationContext extends BeanFactory.**
   * 2. BeanFactory extends ApplicationContext.
   * 3. None of these.
   * 4. ApplicationContext implements BeanFactory.
   * 5. BeanFactory implements ApplicationContext

**2. What is the default nature of the Beans defined in spring framework?**

* **1. Singleton**
* 2. Abstract
* 3. None of these.
* 4. Initialized
* 5. Final

**3. Which of the following correctly mentions the Autowire types?**

* 1. byName , byType, destructor and autodetect.
* 2. None of these.
* 3. byName , byMethod, constructor and autodetect.
* 4. byName , byType, constructor and autocorrect.
* 5. **byName , byType, constructor and autodetect.**

**4. Which of the following is not a component of the Spring framework?**

* 1. HTML/JSP
* 2. AOP
* 3. Spring MVC
* 4. O/R Integration
* 5. None of these.

**5. Which of the following is an IOC or Dependency injection?**

* 1. None of these.
* 2. Framework
* 3. ORM Framework
* 4. **Design Pattern**
* 5. Java Module

**Which of the following is a type of bean injection?**

* 1. constructor and setter.
* 2. getter and setter.
* 3. setter,getter and constructor.
* 4. constructor and getter.
* 5. None of these.

**7. Which of the following specify the points where weaving can be applied?**

* 1. Compile Time , Classload Time , load time.
* 2. Compile Time and Classload Time.
* 3. Compile Time and Runtime.
* 4. Compile Time , Classload Time , Runtime
* 5. None of these.

**8. Which of the following classes can you use for executing the  SQL queries in Spring?**

* 1. JdbcTemplate.
* 2. JDBCHelper.
* 3. DBHelper.
* 4. None of these.
* 5. DBTemplate

**9. Which of the following exception classes is related to all the exceptions thrown in spring applications?**

* 1. DataAccessException.
* 2. SpringException.
* 3. ArrayIndexOutofBound.
* 4. NullPointerException.
* 5. None of these.

**10. Which of the following beans isn’t significant for the WebApplicationContext?**

* 1. Multipart file.
* 2. Locale resolver.
* 3. Resolver.
* 4. Handler exception resolver.
* 5. **None of these.**

**11. Which of the following is true for Controllers in Spring?**

* 1. An abstract class.
* 2. Concrete class.
* 3. An interface.
* 4. Final class.
* 5. None of these.

**12. All of the Spring’s Controllers inherit from an AbstractControllor?**

* **1. true**
* 2. false

**13. Which of the following statements is true for @RequestMapping annotation?**

* 1. Used to map web requests onto specific handler methods.
* 2. Can be applied to the controller classes.
* 3. None of these.
* 4. Used to map web requests onto specific handler classes.
* 5. Can be applied to the controller methods.

**14. Which of the following correctly defines the Spring?**

* 1. **An open source framework.**
* 2. A properietary framework.
* 3. A licensed framework.
* 4. A free framework.
* 5. None of these.

**15. Which of the following Java Collection types can you inject in a Spring application?**

* 1. Using list, set, props or collection tag.
* 2. Using list, set, map or props tag.
* 3. Using lit, set, map or collection tag.
* 4. Using list, collection, map or props tag.
* 5. None of these.

**16. Which of the following is a valid scope of the beans in portlet context?**

* 1. prototype.
* 2. None of these.
* 3. session.
* 4. global-session.
* 5. request.

**17. Which of the following layers the @Controller annotation is used in?**

* 1. **Presentation layer.**
* 2. Service layer.
* 3. Session layer.
* 4. Business layer.
* 5. None of these.

##### 18. Which of the following is not a valid difference between @Inject and @Autowired annotations?

* 1. There is no difference and both can be used interchangeably.
* 2. @Inject annotation is part of Java EE 7’s Context and Dependency Injection framework while @Autowired is the Spring Frameworks own implementation.
* 3. None of these.
* 4. **@Autowired is a legacy annotation whereas @Inject is its latest version.**

**19. @RequestMapping annotation is used to map a HTTP request method (GET or POST) to a specific class or method in the controller which will handle the respective request?**

* 1. false
* 2. true

**20.Annotations work as metadata for classes and Spring uses annotations as an alternative to XML for declarative configuration. Is it true or false?**

1. false

* + 2. **true**

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| --- |
| **Special beans in the WebApplicationContext** |
|  |
|  |

| **Bean type** | **Explanation** |
| --- | --- |
| Controllers | [Controllers](https://docs.spring.io/spring-framework/docs/2.0.x/reference/mvc.html#mvc-controller) are the components that form the 'C' part of the MVC. |
| Handler mappings | [Handler mappings](https://docs.spring.io/spring-framework/docs/2.0.x/reference/mvc.html#mvc-handlermapping) handle the execution of a list of pre- and post-processors and controllers that will be executed if they match certain criteria (for instance a matching URL specified with the controller) |
| View resolvers | [View resolvers](https://docs.spring.io/spring-framework/docs/2.0.x/reference/mvc.html#mvc-viewresolver) are components capable of resolving view names to views |
| Locale resolver | A [locale resolver](https://docs.spring.io/spring-framework/docs/2.0.x/reference/mvc.html#mvc-localeresolver) is a component capable of resolving the locale a client is using, in order to be able to offer internationalized views |
| Theme resolver | A [theme resolver](https://docs.spring.io/spring-framework/docs/2.0.x/reference/mvc.html#mvc-themeresolver) is capable of resolving themes your web application can use, for example, to offer personalized layouts |
| multipart file resolver | A [multipart file resolver](https://docs.spring.io/spring-framework/docs/2.0.x/reference/mvc.html#mvc-multipart) offers the functionality to process file uploads from HTML forms |
| Handler exception resolver(s) | [Handler exception resolvers](https://docs.spring.io/spring-framework/docs/2.0.x/reference/mvc.html#mvc-exceptionhandlers) offer functionality to map exceptions to views or implement other more complex exception handling code |