1. To use Hibernate for multiple databases, Configure multiple sessionFactory instances. State True or False.

* True
* False

1. Configure single sessionFactory per database, using separate configuration file.

* True
* False

1. Which method is used to get a session object?
2. **In how many ways, objects can be fetched from database in hibernate?**  
   Hibernate provides following four ways to fetch objects from database:  
   a. Using HQL  
   b. Using identifier  
   c. Using Criteria API  
   d. Using Standard SQL
3. **What the three inheritance models are of hibernate?**  
   Hibernate has following three inheritance models:  
   a. Tables Per Concrete Class  
   b. Table per class hierarchy  
   c. Table per sub-class
4. Which facility provides tools for development of distributed, web based solutions.

|  |  |
| --- | --- |
|  | JVM |
|  | JMX |
|  | **JRE** |

1. What are the modules available in web flow?
2. Disadvantages of spring MVC(2 ques)

* Complex and powerful library
* Complex web flow

1. What are not TYPE of dependency injection?
2. What is the well known module of spring?

* AOP

1. Application contexts provide a generic way to load file resources, such as images.

* True
* False

1. The bean definition contains the information called configuration metadata which is needed for the container to know the followings:

* How to create a bean
* Bean's lifecycle details
* Bean's dependencies

1. produce a new bean instance each time one is needed

* Prototype

1. **<map>**: This can be used to inject a collection of name-value pairs where name and value can be of any type.
2. What does @Required annotation mean?

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. The container throws BeanInitializationException if the affected bean property has not been populated.

1. What is Weaving?

Weaving is the process of linking aspects with other application types or objects to create an advised object.

1. What is Spring MVC framework?

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. The MVC pattern results in separating the different aspects of the application (input logic, business logic, and UI logic), while providing a loose coupling between these elements.

1. What is a DispatcherServlet?

The Spring Web MVC framework is designed around a DispatcherServlet that handles all the HTTP requests and responses.

1. What is Controller in Spring MVC framework?

Controllers provide access to the application behavior that you typically define through a service interface. Controllers interpret user input and transform it into a model that is represented to the user by the view. Spring implements a controller in a very abstract way, which enables you to create a wide variety of controllers.

1. What is/are typically case(s) where you usually need to manually instanciated an ApplicationContext?

* In a web application
* In an integration test running with the SpringJUnit4ClassRunner
* In a standalone application started with a main method
* None of the above

21. Select the right statement about referring a Spring configuration file inside the package

com.example.myapp in the below example?

ApplicationContext context = **new**

ClassPathXmlApplicationContext("classpath:/com.example.myapp.config.xml");(checkbox ques)

* The classpath: prefix could be omit
* Package name with dot is not well formatted using the dot character
* The slash character preceding com.example could be omit

22. What are the main advantage(s) for using Spring when writing integration tests?

* Reuse Spring configuration files of the application
* Create mock or stub
* Be able to use the rollback after the test pattern
* Use dependency injection

23. Assuming @Transactional annotation support is enabled and the transferMoney method is called

through a Spring AOP proxy, what is the behavior of the following code sample?

@Transactional(propagation=Propagation.*REQUIRED*)

**public void** transferMoney(Account src, Account target, **double** amount) {

add(src, -amount);

add(src, amount);

}

@Transactional(propagation=Propagation.*REQUIRES\_NEW*)

**public void** add(Account account, Double amount) {

// IMPLEMENTATION

}

* The add() method executes code in a new transaction
* The add() method uses the transaction of the transferMoney() method
* When calling the add() method, an exception is thrown
* Other behavior

24. What is the transaction behavior of the PROPAGATION\_REQUIRES\_NEW mode? Select a unique answer.

* If a transaction exists, the current method should run within this transaction. Otherwise, it should start a new transaction and run within its own transaction.
* If a transaction is in progress, the current method should run within the nested transaction of the existing transaction. Otherwise, a new transaction has to be started and run within its own transaction.
* The current method must start a new transaction and run within its own transaction. If there is an existing transaction in progress, it is suspended.
* None of the above

25. Cache is simply to enhance the performance and it sits between application and database.

* True
* False

26. Scope that are used only in web aware application context

* Request
* Session
* Global session

27. Spring offers four types of collection configuration elements.

* List
* Set
* Map
* Props

Which of the following tag can be used to inject a collection of name-value pairs where name and value can be of any type?

* Map

28. Identify the annotation which 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. The container throws BeanInitializationException if the affected bean property has not been populated.

* @Required

29.Spring is tightly coupled framework using DI.

* True
* False

30.from person p where p.size>25.0 orderby p.salary asc. This denotes what?

* Select operation
* Sort
* Named parameter

31. MessageSource and resourcemapping

32. IOC container is responsible to:

* create the instance
* configure the instance, and
* assemble the dependencies

33. addclass

34. view resolver

35. Spring is an open source framework

36. Types of aspect implementation

* XML schema based
* Java Based
* @AspectJ based

37. what are the common validation that has to be done for a simple employee table?

* empId cant be empty
* name cant be empty
* empID has to be greater than 1.

38. Types of tag available in form tag in spring(true /false related to form tag)

* The button tag
* The checkbox tag
* …Radio buttons
* Passwords
* …

39.Ways of configurating a bean as autowired.

40. **XML** Schema-**based configuration introduced** in **Spring** 2.0