


Question # 1

How many ServletContext objects are available for an entire web application?

 Revisit

Choose the best option

- ☐ One each per servlet
- ☐ One each per request
- ☐ One each per response
- ☒ Only one

Question # 2

In SpringBoot application the class which has main method, should be annotated with _____.

 Revisit

Choose the best option

- ☐ @EnableSpringApplication
- ☐ @SpringApplication
- ☒ @SpringBootApplication
- ☐ @EnableSpringBootApplication

Question # 3

Which of these JDBC mechanisms allows us to define checkpoints for a transaction?

 Revisit

Choose the best option

- ☐ CheckPoint
- ☐ CommitPoint
- ☒ Savepoint
- ☐ RollbackPoint

Question # 4

What are the correct declaration of getConnection() method in DriverManager class?

 Revisit

Choose the best option

- ☐ getConnection(String url,String info) throws SQLException
- ☐ getConnection(String urls[]) throws SQLException
- ☒ getConnection(String url, String user, String password) throws SQLException
- ☐ getConnection(String url) throws SQLException

1 2 3 4 5 6 7 8 9 10 < 50

Question # 5

The ability to invoke a RESTful method multiple times without changing the state of the server on subsequent invocations is known as:

Revisit

Choose the best option

- ☒ Idempotence
- ☐ Immutability
- ☐ Statefulness
- ☐ Uniformity

Question # 6

What is TRUE about the cascading and cascade mode attributes in JPA Entities?

Choose the best option

- ☒ Cascade mode attributes can be specified for the association annotations (like @OneToMany) in an entity
- ☐ The cascading direction is from the target entity to the source entity
- ☐ PERSIST, DELETE are the only valid cascading mode attributes
- ☐ Cascading is not supported in JPA

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Question # 7

Which of the following annotation can be used for testing spring boot application, which creates the entire context without starting the server?

Revisit

Choose the best option

- ☐ @Test
- ☐ @WebMvcTest
- ☒ @SpringBootTest
- ☐ @SpringBootTestIntegrationTest

<https://spring.io/guides/gs/testing-web/>

1 2 3 4 5 6 7 8 9 10 < 8 of

Question # 8

How is the dynamic interception of requests and responses to transform the information done?

Revisit

Choose the best option

- ☐ servlet container
- ☐ servlet config
- ☐ servlet context
- ☒ servlet filter

Servlet has various components like container, config, context, filter. Servlet filter provides the dynamic interception of requests and responses to transform the information.

Question # 9

What is a POM file in a Maven project?

Choose the best option

- ☐ A file that contains the compiled bytecode of the classes in your project
- ☐ A package that stores resources like images for the Java project
- ☐ A file that points to the media resources used by a Java project
- ☒ A file that stores the structure and dependencies for your Maven project

Question # 10

Any client request to access resources in the WEB-INF/ directory must be returned with _____.

Revisit

Choose the best option

- ☐ BAD_REQUEST
- ☒ SC_NOT_FOUND
- ☐ SC_INTERNAL_SERVER_ERROR
- ☐ ESC_BAD_REQUEST

Question # 11

Identify which of the following types of JDBC drivers makes use of the database native protocol.

Revisit

Choose the best option

- ☒ JDBC-ODBC Bridge plus ODBC driver
- ☐ Native-API, partly Java driver
- ☐ JDBC-Net, pure Java driver
- ☐ Native-protocol, pure Java driver

Question # 12

Which of the following method is best suited to call on JDBC connection object, in the scenario where same SQL statement needs to be executed frequently with different parameters?

Revisit

Choose the best option

- ☐ createStatement()
- ☒ preparedStatement()
- ☐ prepareCall()
- ☐ nativeSQL()

<https://docs.oracle.com/javase/tutorial/jdbc/basics/prepared.html>

Question # 13

Which level of cache is represented by Hibernate Session object?

Revisit

Choose the best option

- ☒ First Level Cache
- ☐ Second Level Cache
- ☐ Query Cache
- ☐ Database Cache

Question # 14

What dependency artifact Id must be added to see the secure actuators in spring boot?

Revisit

Choose the best option

- ☐ spring-boot-secure-actuators
- ☐ spring-boot-start-web-services
- ☐ spring-boot-dev-tools
- ☐ spring-boot-starter-security

```
<!-- https://mvnrepository.com/artifact/org.springframework.boot/spring-boot-starter-actuator -->
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-actuator</artifactId>
  <version>2.7.3</version>
</dependency>
```

Question # 15

In Servlet3.0 which of the given annotation is used to declare the following class as a Servlet Component with the URL pattern will be "/hello"?
// annotation to be applied
public class MyServlet extends javax.servlet.http.HttpServlet{
}

Revisit

Choose the best option

- ☐ @WebServlet
- ☐ @Servlet("/hello")
- ☐ @Servlet
- ☒ @WebServlet("/hello")

Question # 16

Assume you have a servlet class with an HttpServletRequest object called myReq. Your servlet has extracted the details from the incoming request and needs to forward it to a servlet accessible at the URL "processingservlet". Which step do you need to carry out before you forward the request over to the next servlet?

Revisit

Choose the best option

- ☐ HttpServletResponse resp = myReq.next("processingservlet");
- ☒ RequestDispatcher rd = myReq.getRequestDispatcher("processingservlet");
- ☐ HttpServletRequest nextReq = myReq.next("processingservlet");
- ☐ HttpServlet httpServ = myReq.next("processingservlet");

Question # 17

Which of the following annotation is used in JPA to link two tables through a relation table?

Revisit

Choose the best option

- ☒ @JoinTable
- ☐ @LinkTable
- ☐ @RelationTable
- ☐ @JoinColumn

<https://stackoverflow.com/questions/5478328/in-which-case-do-you-use-the-jpa-jointable-annotation#:~:text=%40ManyToMany%20associations,the%20two%20Foreign%20Key%20columns>

Question # 18

Which of the following is not a valid attribute of <jsp:useBean> Action tag?

Revisit

Choose the best option

- ☐ id
- ☐ class
- ☐ type
- ☒ property

Question # 19

In which one of the following situations does Hibernate Criteria API not provide a benefit?

Revisit

Choose the best option

- ☐ Allows to use aggregate functions
- ☐ Cannot order the result set
- ☐ Allows to fetch only selected columns of result
- ☐ Can add conditions while fetching results

Question # 20

Which of the following, cannot be supplied as automatic configuration in Spring Boot?

Revisit

Choose the best option

- ☐ Request Handler
- ☐ Dispatcher Servlet
- ☒ View Resolver
- ☐ Handler Mapping

Question # 21

Which of the following annotation is recommended for partial update of resource in Spring boot rest controller?

Revisit

Choose the best option

- ☐ @GetMapping
- ☐ @PostMapping
- ☐ @PutMapping
- ☒ @PatchMapping

Question # 22

What is correct about JSP Scriptlets?

Choose the best option

- ☐ A loop must start in one Scriptlet and end in it
- ☐ Instructions in a Scriptlet must follow Java syntax
- ☐ Semicolon is not required at the end of each statement in a Scriptlet
- ☒ All of the above

Question # 23

Which of the following annotation in JPA, is used to specify primary key – foreign key relation between two entities?

Revisit

Choose the best option

- ☒ JoinColumn
- ☐ IdClass
- ☐ EmbeddedId
- ☐ MapId

<https://www.digitalocean.com/community/tutorials/jpa-hibernate-annotations>

Question # 24

Which of the following annotation is applied on the unique Id of an entity to get its value generated?

Revisit

Choose the best option

- ☐ @Generator
- ☒ @GeneratedValue
- ☐ @IdGenerator
- ☐ @Sequence

Question # 25

Which of the following statements is false about Hibernate SessionFactory?

Revisit

Choose the best option

- ☒ It is a class
- ☐ It is a factory of session objects
- ☐ It is a thread safe object
- ☐ It represents second level cache

<https://docs.jboss.org/hibernate/orm/3.2/api/org/hibernate/SessionFactory.html>

Question # 26

Which of the following is the right sequence of stages in the JSP life cycle?

Revisit

Choose the best option

- ☐ Initialization, Cleanup, Compilation, Execution
- ☐ Initialization, Compilation, Cleanup, Execution
- ☒ Compilation, Initialization, Execution, Cleanup
- ☐ Cleanup, Compilation, Initialization, Execution

<https://www.geeksforgeeks.org/life-cycle-of-jsp/>

Question # 27

Choose the inheritance model, which is not available in Hibernate.

Revisit

Choose the best option

- ☐ Table Per sub-class
- ☐ Table Per class hierarchy
- ☒ Table Per Object
- ☐ Tables Per Concrete Class

Question # 28

Revisit

Assume we do not explicitly set a value for auto-commit for a Connection instance. We have a Statement created from that Connection which we use to perform an insert operation using executeUpdate. Assuming there is nothing wrong with the inserts, what is the outcome?

even if we we not written tx.commit(); then also recors get inserted into database because JDBC provides auto commit

Choose the best option

- ☐ An error is thrown as executeUpdate is not meant for inserts
- ☐ The rows are inserted, but not committed
- ☒ The rows are inserted and committed
- ☐ An error is thrown since we need to explicitly set a value for auto-commit

Question # 29

Revisit

Which of the following is not a valid phase in maven default build lifecycle?

Validate, Compile, Test, Package, Integration test, Verify, Install and Deploy.

<https://www.geeksforgeeks.org/maven-lifecycle-and-basic-maven-commands/#:~:text=Maven%20Lifecycle%3A%20Below%20is%20a,%2C%20Verify%2C%20Install%20and%20Deploy.>

Choose the best option

- ☒ clean
- ☐ validate
- ☐ compile
- ☐ install

Question # 30

Revisit

The return type of getParameterNames() of HttpServletRequest object is:

getParameterNames

Enumeration<String> getParameterNames()

Returns an Enumeration of String objects containing the names of the parameters contained in this request. If the request has no parameters, the method returns an empty Enumeration.

Choose the best option

- ☐ Array of Strings
- ☐ java.util.ArrayList
- ☒ java.util.Enumeration
- ☐ String

Question # 31

Revisit

How would you configure a RESTful URL parameter that supports a search for a book based on its ID?

Choose the best option

- ☐ GET /{id}/books/
- ☒ GET /books/{id}
- ☐ GET /book?id={id}
- ☐ GET /books?id={id}

Question # 32

Which of the following can be used to test APIs in web service?

Choose the best option

- ☐ Postback tool
- ☒ Writing Web application using RestTemplate
- ☐ Writing web application using RestManager
- ☐ Writing web application using RestMan

Question # 33

Which of the following is not a disadvantage of Hibernate?

Choose the best option

- ☐ Hibernate may be slower than JDBC , if caching is not used properly
- ☐ Hibernate's connection pool is not great
- ☒ Need to learn HQL syntax
- ☐ Hibernate provides automatic support for transactions

<https://www.javatpoint.com/hibernate-transaction-management-example>

Question # 34

When it comes to the Initialization phase of the JSP life cycle, which of the following is true?

 Revisit


<https://www.geeksforgeeks.org/life-cycle-of-jsp/>

Choose the best option

- ☒ When a container loads a JSP it invokes the `jspInit()` method before servicing any requests.
- ☐ Container invokes `_jspService()` method during Initialization phase
- ☐ Both of the above
- ☐ None of the above

Question # 35

In hibernate, _____ annotation is used to represent primary key

 Revisit

Choose the best option

- ☒ @Id
- ☐ @GeneratedValue
- ☐ @Entity
- ☐ @Key

Question # 36

 Revisit

Complete the following aspect implementation for an around advice (missing lines —Line 4 and Line 7)

Identify the correct Line of code to be inserted at the respective lines.

@Aspect

public class BusinessAspect

{

_____ // Line 4

public void businessMethods() {} // Line 5

_____ // Line 7

public Object profile(ProceedingJoinPoint joinpoint) throws Throwable // Line 8

{

long start = System.currentTimeMillis();

Object output = joinpoint.proceed();

long elapsedTime = System.currentTimeMillis() - start

System.out.println("Method execution time: " + elapsedTime + " milliseconds.");

return output;

}

}

Choose the best option

- ☐ @Pointcut("expression(* com.demo.dao.*(..))") //Line 4
@Around("businessMethods()") //Line 7
- ☐ @Around("businessMethods()") //Line 4
@Pointcut("expression(* com.demo.dao.*(..))") //Line 7
- ☐ @Around("businessMethods()") //Line 4
@Pointcut("execution(* com.demo.dao.*(..))") //Line 7
- ☒ @Pointcut("execution(* com.demo.dao.*(..))") //Line 4
@Around("businessMethods()") //Line 7

Question # 37

 Revisit

Which of the following problems can be solved using Lookup Method Injection in Spring?

Choose the best option

- ☐ Singleton to Prototype dependency
- ☐ Prototype to Singleton dependency
- ☐ Singleton to Singleton dependency
- ☐ Prototype to Prototype dependency

Question # 38

In spring MVC _____ class works as frontend controller.

Revisit

Choose the best option

- ☒ DispatcherServlet
- ☐ All Classes annotated with @Controller
- ☐ ViewResolver
- ☐ HandlerMapping

<https://www.javatpoint.com/spring-mvc-tutorial#:~:text=Front%20Controller%20%2D%20In%20Spring%20Web,works%20as%20the%20front%20controller.>

Question # 39

```
<hibernate-configuration>
<session-factory>
...
<property name="hibernate.hbm2ddl.auto">create</property>
...
</session-factory>
</hibernate-configuration>
```

Referring to the above partial code of hibernate configuration file, which of the following is not a valid value for hibernate.hbm2ddl.auto property for hibernate configuration?

Revisit

Choose the best option

- ☒ create-drop
- ☐ drop
- ☐ update
- ☐ create

Question # 40

Which of the following is not a valid JSP Action tag?

Revisit

Choose the best option

- ☐ jsp:plugin
- ☐ jsp:include
- ☒ jsp:useProperty
- ☐ jsp:useBean

```
<jsp:useBean id="candidate" class="beans.CandidateBean" scope="session" type=""/>
<jsp:plugin code="" codebase="" type="bean"></jsp:plugin>
<jsp:include page=""></jsp:include>
```