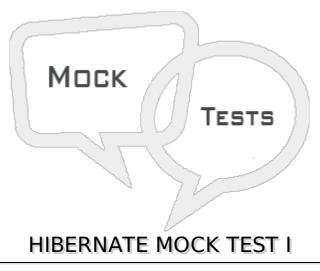
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This section presents you various set of Mock Tests related to **Hibernate Framework**. You can download these sample mock tests at your local machine and solve offline at your convenience. Every mock test is supplied with a mock test key to let you verify the final score and grade yourself.



Q 1 - What JDBC stands for?

- A Java DB Connectivity
- B Java Database Connectivity
- C Java Data Bind Connect
- D Java Data Bind Connector

Q 2 - Which of the following is true about JDBC?

- A JDBC stands for Java Database Connectivity.
- B IDBC provides a set of Java API for accessing the relational databases from Java program.
- C JDBC APIs enables Java programs to execute SQL statements and interact with any SQL compliant database.
- D All of the above.

Q 3 - What ORM stands for?

- A Object Relation Map
- **B** Object Relational Mapping
- C Object Record Mapping
- D None of the above.

Q 4 - Which of the following is true about ORM?

A - ORM stands for Object-Relational Mapping.

D - None of the above.	
Q 5 - Which of the foll	owing is not an ORM framework?
A - Castor	
B - Spring DAO	
C - Hibernate	
D - NoSQL	
Q 6 - Which of the foll	owing is true about Hibernate?
A - Hibernate is an Objec	ct-Relational Mapping <i>ORM</i> solution for JAVA.
B - Hibernate is an Objec	ct-Relational Mapping <i>ORM</i> solution for .NET
C - Both of the above.	
D - None of the above.	
Q 7 - Which of the foll	owing is true about Hibernate?
A - Hibernate takes care writing any line of code.	of mapping Java classes to database tables using XML files and without
B - Hibernate provides si database.	mple APIs for storing and retrieving Java objects directly to and from the
C - Hibernate abstracts a Java Objects.	away the unfamiliar SQL types and provide us to work around familiar
D - All of the above.	
Q 8 - Which of the foll	owing database is not supported by Hibernate?
A - DB2/NT	
B - MvSOL	

B - ORM is a programming technique for converting data between relational databases.

${\bf Q}$ 9 - Which of the following tools/frameworks provides integration with Hibernate?

A - XDoclet Spring

C - FoundationDB

D - PostgreSQL

C - Both of the above.

B - J2EE

C - Maven

D - All of the above.

Q 10 - Which of the following is not a core component of Hibernate?

- A JDBC
- **B** SessionFactory
- C Session
- D Configuration

Q 11 - Which of the following is not a core component of Hibernate?

- A Transaction
- B Provider
- C Criteria
- D Query

Q 12 - Which of the following is true about configuration component of Hibernate?

- A The Configuration object is the first Hibernate object you create in any Hibernate application.
- B The Configuration object is usually created only once during application initialization.
- C The Configuration object represents a configuration or properties file required by the Hibernate.
- D All of the above.

Q 13 - Which of the following object is used to create SessionFactory object in hibernate?

- A Configuration
- B Session
- C SessionFactory
- D Transaction

Q 14 - Which of the following is true about SessionFactory object in hibernate?

- A SessionFactory object configures Hibernate for the application using the supplied configuration file.
- B SessionFactory object allows for a Session object to be instantiated.
- C The SessionFactory is a thread safe object.
- D All of the above.

Q 15 - Which of the following is true about SessionFactory object in hibernate?

A - The SessionFactory is heavyweight object.

- B SessionFactory object is created during application start up and kept for later use.
- C You would need one SessionFactory object per database using a separate configuration file.
- D All of the above.

Q 16 - Which of the following is true about Session object in hibernate?

- A A Session is used to get a physical connection with a database.
- B The Session object is lightweight.
- C Persistent objects are saved and retrieved through a Session object.
- D All of the above.

Q 17 - Is SessionFactory a thread-safe object?

- A true
- B false

Q 18 - Is Session a thread-safe object?

- A true
- B false

Q 19 - Which of the following is true about Transaction object in hibernate?

- A A Transaction represents a unit of work with the database.
- B Transactions in Hibernate are handled by an underlying transaction manager.
- C This is an optional object and Hibernate applications may choose not to use this interface, instead managing transactions in their own application code.
- D All of the above.

Q 20 - Which of the following is true about Query object in hibernate?

- A Query objects Hibernate Query Language HQL string to retrieve data from the database and create objects.
- B Query objects SQL string to retrieve data from the database and create objects.
- C A Query instance is used to bind query parameters, limit the number of results returned by the query, and finally to execute the query.
- D All of the above.

Q 21 - Which of the following is true about hibernate.dialect property in hibernate configuration?

- A This property makes Hibernate generate the appropriate SQL for the chosen database.
- B This property makes Hibernate generate the appropriate java code for the chosen database.

- C Both of the above.

 D None of the above.

 Q 22 Which of the following is true about transient state of a persistent entity?

 A A new instance of a persistent class which is not associated with a Session.

 B A new instance of a persistent class which has no representation in the database.

 - C A new instance of a persistent class which has no identifier value.
 - D All of the above.

Q 23 - Which of the following is true about persistent state of a persistent entity?

- A You can make a transient instance persistent by associating it with a Session.
- B A persistent instance has a representation in the database.
- C A persistent instance has an identifier value.
- D All of the above.

Q 24 - Which of the following is true about detached state of a persistent entity?

- A Once we close the Hibernate Session, the persistent instance will become a detached instance.
- B A new instance of a persistent class which is not associated with a Session.
- C You can make a transient instance detached by associating it with a Session.
- D None of the above.

Q 25 - Session.beginTransaction method begins a unit of work and returns the associated Transaction object.

A - true

B - false

ANSWER SHEET

Question Number	Answer Key
1	В
2	D
3	В
4	С
5	D
6	Α

7	D	
8	С	
9	D	
10	Α	
11	В	
12	D	
13	Α	
14	D	
15	D	
16	D	
17	Α	
18	В	
19	D	
20	D	
21	Α	
22	D	
23	D	
24	Α	
25	Α	

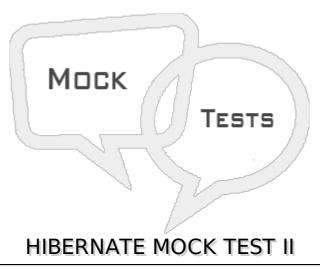
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HIBERNATE MOCK TEST

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Q	1	- Session.createCriteria	creates a n	ew Criteria	instance,	for the giv	en entity	class,
or	· a	superclass of an entity	class.					

- A true
- B false

${\bf Q}$ 2 - Session.createQuery creates a new instance of Query for the given HQL query string.

- A true
- B false

Q 3 - Session.createSQLQuery creates a new instance of Query for the given HQL query string.

- A true
- B false

Q 4 - Session.createSQLQuery creates a new instance of Query for the given SQL query string.

- A true
- B false

Q 5 - Which method is used to remove a persistent instance from the datastore?

- A Session.delete
- B Session.remove

C - Session.del
D - Session.rm
Q 6 - Which method is used to get a persistent instance from the datastore?
A - Session.read
B - Session.get
C - Session.retrieve
D - Session.fetch
Q 7 - Which method is used to re-read the state of the given instance from the underlying database?
A - Session.refresh
B - Session.get
C - Session.reload
D - Session.retrieve
Q 8 - Which method is used to save the state of the given instance from the underlying database?
A - Session.store
B - Session.keep
C - Session.save
D - Session.load
D - Session.ioad
Q 9 - Which method is used to update the state of the given instance from the underlying database?
Q 9 - Which method is used to update the state of the given instance from the
Q 9 - Which method is used to update the state of the given instance from the underlying database?
Q 9 - Which method is used to update the state of the given instance from the underlying database? A - Session.store
Q 9 - Which method is used to update the state of the given instance from the underlying database? A - Session.store B - Session.keep
Q 9 - Which method is used to update the state of the given instance from the underlying database? A - Session.store B - Session.keep C - Session.update
Q 9 - Which method is used to update the state of the given instance from the underlying database? A - Session.store B - Session.keep C - Session.update D - Session.load Q 10 - Which method is used to save or update the state of the given instance from
Q 9 - Which method is used to update the state of the given instance from the underlying database? A - Session.store B - Session.keep C - Session.update D - Session.load Q 10 - Which method is used to save or update the state of the given instance from the underlying database?

D - Session.load

Q 11 - Which of the following is the root node of hbm.xml file?

- A hibernate-mapping
- B hibernate-config
- C class-mapping
- D class-config

Q 12 - Which of the following elements is used to define specific mappings from a Java classes to the database tables?

- A property
- B hibernate-config
- C class
- D class-config

Q 13 - Which of the following is true about <class> element?

- A The <class> elements are used to define specific mappings from a Java classes to the database tables.
- B The Java class name is specified using the name attribute of the class element.
- C The database table name is specified using the table attribute of the class element.
- D All of the above.

Q 14 - Which element of hbm.xml defines maps the unique ID attribute in class to the primary key of the database table?

- A id
- B generator
- C primaryKey
- D None of the above.

Q 15 - Which of the following is true about <id> element?

- A The <id> element maps the unique ID attribute in class to the primary key of the database table.
- B The name attribute of the id element refers to the property in the class.
- C The column attribute of the id element refers to the column in the database table.
- D All of the above.

Q 16 - Which element of hbm.xml automatically generate the primary key values?

A - id

B - generator	
C - primaryKey	
D - None of the above	≥ .
Q 17 - Which of the	e following is true about <generator> element?</generator>
A - The <generator> primary key values</generator>	element within the id element is used to automatically generate the
	oute of the generator element is set to native to let hibernate pick up either hilo algorithm to create primary key depending upon the capabilities of the
C - Both of the above	
D - None of the above	<u>.</u> .
Q 18 - Which eleme the database table?	ent of hbm.xml is used to map a Java class property to a column in?
A - id	
B - generator	
C - property	
D - class	
Q 19 - Which of the	e following is true about <property> element?</property>
A - The <property> e table.</property>	element is used to map a Java class property to a column in the database
B - The name attribut	te of the element refers to the property in the class.
C - The column attrib	ute of the element refers to the column in the database table.
D - All of the above.	
Q 20 - Which of the	e following element maps java.util.Set property in hibernate?
A - <set></set>	
B - <list></list>	
C - <bag></bag>	
D - <map></map>	
Q 21 - Which of the	e following element maps java.util.List property in hibernate?
A - <set></set>	
B - <list></list>	
C - <bag></bag>	

D - <map></map>		
Q 22 - Which of the	e following ele	ment maps java.util.Collection property in hibernate?
A - <set></set>		
B - <list></list>		
C - <bag></bag>		
D - <map></map>		
Q 23 - Which of the	e following ele	ment maps java.util.Map property in hibernate?
A - <set></set>		
B - <list></list>		
C - <bag></bag>		
D - <map></map>		
Q 24 - Which of the hibernate?	e following ele	ment maps java.util.SortedMap property in
A - <set></set>		
B - <list></list>		
C - <bag></bag>		
D - <map></map>		
Q 25 - Which of the in hibernate?	e following ele	ment is used to represent many-to-one relationship
A - <many-to-one></many-to-one>		
B - <many-one></many-one>		
C - <manytoone></manytoone>		
D - None of the above	Э	
		ANSWER SHEET
Question Number	Answer Key	
1	Α	
2	Α	
3	В	
4	Α	
5	Α	

6	В
7	A
8	C
9	C
10	A
11	A
12	C
13	D
14	A
15	D
16	В
17	C
18	C
19	D
20	A
21	В
22	C
23	D
24	D
25	A

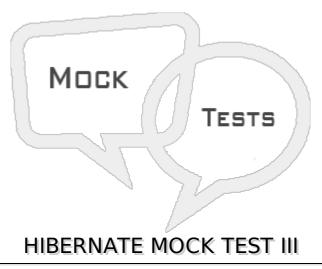
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Q 1 - Which of the following element is used to represent one-to-one relationship in hibernate?

- A <many-to-one>
- B <many-one>
- C < Many To One >
- D None of the above.

Q 2 - Which of the following element is used to represent one-to-many relationship in hibernate?

- A <one-to-many>
- B < one-many>
- C < OneToMany>
- D None of the above.

Q 3 - Which of the following element is used to represent many-to-many relationship in hibernate?

- A <many-to-many>
- B <many-many>
- C < Many To Many >
- D None of the above.

Q 4 - Which of the following element is used to represent one-to-many relationship in hibernate?

A - <one-to-many>
B - <one-many>
C - <OneToMany>
D - None of the above.

Q 5 - Which of the following situation represents many-to-many relationship?

- A An employee can have multiple certificates and same certificate can be conferred to many employees.
- B An employee can have multiple certificates.
- C A certificate can be conferred to many employees.
- D All of the above.

Q 6 - What is the difference between save and persist methods of session object?

- A There is no difference.
- B save saves the object and returns status whereas persist stores status in different variable.
- C save saves the object and returns the id of the instance whereas persist do not return anything after saving the instance.
- D None of the above.

Q 7 - What is the difference between get and load methods of session object?

- A get returns null if no data is present where as load throws ObjectNotFoundException exception in such case.
- B get always hits the database whereas load method doesn't hit the database.
- C get returns actual object whereas load returns proxy object.
- D All of the above.

Q 8 - What is lazy loading?

- A Lazy loading is a technique in which objects are loaded on demand basis.
- B Lazy loading is a technique in which objects are persisted on demand basis.
- C Both of the above.
- D None of the above.

Q 9 - What is value of lazy loading by default?

- A true
- B false

Q 10 - Child objects are not loaded when parent is loaded/populated from database. What this technique is called?

- A Eager Loading
- **B** Lazy Loading
- C Request based Loading
- D None of the above.

Q 11 - What HQL stands for?

- A Hibernate Query Language
- B High Query Language
- C Hybrid Query Language
- D None of the above.

Q 12 - Which of the following is true about HQL?

- A HQL takes java objects in the same way as SQL takes tables.
- B HQL is a Object Oriented Query language
- C HQL is database independent.
- D All of the above.

Q 13 - What is first level cache in hibernate?

- A The first-level cache is the Session based cache.
- B The first-level cache is the SessionFactory based cache.
- C Both of the above.
- D None of the above.

Q 14 - Whis of the following is true about first level cache in hibernate?

- A The first-level cache is the Session cache.
- B The first-level cache is a mandatory cache through which all requests must pass.
- C The Session object keeps an object under its own power before committing it to the database.
- D All of the above.

Q 15 - What is second level cache in hibernate?

- A The second-level cache is the SessionFactory based cache and is mainly responsible for caching objects across sessions.
- B The second-level cache is the Session based cache.

A - The second-level cache is the SessionFactory based cache. B - The second-level cache can be configured on a per-class and per-collection basis. C - The second-level cache is mainly responsible for caching objects across sessions. D - All of the above. Q 17 - Is first level caching mandatory in hibernate? A - true B - false Q 18 - Is second level caching mandatory in hibernate? A - true B - false Q 19 - Is query level caching mandatory in hibernate? A - true B - false Q 20 - What is Query level cache in hibernate? A - The query-level cache is cache for query resultsets that integrates closely with the secondlevel cache. B - The query-level cache is the Session based cache. C - Both of the above. D - None of the above. Q 21 - Which of the following is true about query level cache in hibernate? A - Query level cache is an optional feature. B - Query level cache requires two additional physical cache regions that hold the cached guery results and the timestamps when a table was last updated. C - Query level cache is only useful for queries that are run frequently with the same parameters.

Q 22 - Which of the following is a concurrency strategies in hibernate?

Q 16 - Whis of the following is true about second level cache in hibernate?

C - Both of the above.

D - None of the above.

D - All of the above.

- A Transactional
- B Read-write
- C Nonstrict-read-write.
- D All of the above.

Q 23 - When a Transactional concurrency strategy is to be used?

- A Use it for reference data only.
- B Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions.
- C Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern.
- D None of the above.

Q 24 - When a Read-write concurrency strategy is to be used?

- A Use it for reference data only.
- B Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions.
- C Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern.
- D None of the above.

Q 25 - When a Nonstrict-read-write concurrency strategy is to be used?

- A Use it for reference data only.
- B Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions.
- C Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern.
- D None of the above.

ANSWER SHEET

Question Number	Answer Key
1	Α
2	Α
3	Α
4	Α
5	Α
6	С

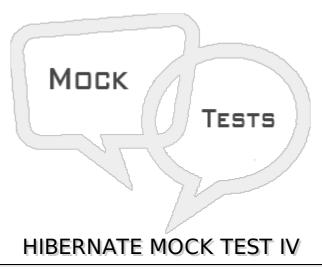
7	D
8	A
9	A
10	В
11	A
12	D
13	A
14	D
15	A
16	D
17	A
18	В
19	В
20	A
21	D
22	D
23	В
24	В
25	С

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Q 1 - When a Read-only concurrency strategy is to be used?

- A Use it for reference data only.
- B Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions.
- C Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern.
- D None of the above.

Q 2 - Which of the following is true with respect to ORM vs JDBC?

- A ORM system lets business code access objects rather than DB tables.
- B ORM system hides details of SQL queries from OO logic.
- C ORM system helps in Transaction management and automatic key generation.
- D All of the above.

Q 3 - Which of the following is true about hibernate?

- A Hibernate does not require an application server to operate.
- B Hibernate manipulates Complex associations of objects of your database.
- C Hibernate minimize database access with smart fetching strategies.
- D All of the above.

Q 4 - Which of the following database is not supported by Hibernate?

A - Oracle

B - Microsoft SQL Server Database
C - FoundationDB
D - Informix Dynamic Server
Q 5 - Which of the following database is supported by Hibernate?
A - DB2/NT
B - PostgreSQL
C - Sybase SQL Server
D - All of the above
Q 6 - Which of the following is a core component of Hibernate?
A - Transaction
B - SessionFactory
C - Session
D - All of the above
Q 7 - Configuration object is used to create SessionFactory object in hibernate.
A - true
B - false
Q 8 - The SessionFactory is heavyweight object.
A - false
B - true
Q 9 - You would need one SessionFactory object per database using a separate configuration file.
A - false
B - true
Q 10 - A Session is used to get a physical connection with a database.
A - true
B - false
Q 11 - The Session object is lightweight.
A - false

B - true			

Q 12 - Persistent objects are saved and retrieved through a Session object.

- A false
- B true

Q 13 - Which of the following is true about hibernate annotations?

- A Hibernate Annotations is the powerful way to provide the metadata for the Object and Relational Table mapping.
- B All the metadata is clubbed into the POJO java file along with the code this helps the user to understand the table structure and POJO simultaneously during the development.
- C Both of the above.
- D None of the above.

Q 14 - Which of the following is true about @ld annotation?

- A Hibernate detects that the @ld annotation is on a field.
- B Hibernate assumes that it should access properties on an object directly through fields at runtime.
- C Both of the above.
- D None of the above.

Q 15 - Which of the following is true about @Entity annotation?

- A @Entity annotation marks a class as an entity bean.
- B Class marked with @Entity annotation must have a no-argument constructor that is visible with at least protected scope.
- C Both of the above.
- D None of the above.

Q 16 - Which of the following is true about @Table annotation?

- A The @Table annotation allows to specify the details of the table that will be used to persist the entity in the database.
- B The @Table annotation allows to override the name of the table, its catalogue, and its schema, and enforce unique constraints on columns in the table.
- C Both of the above.
- D None of the above.

Q 17 - Which of the following is true about @GeneratedValue annotation?

B - @GeneratedValue annotation provides the primary key generation strategy to be used. C - Both of the above. D - None of the above. Q 18 - Which of the following is true about @Column annotation? A - The @Column annotation is used to specify the details of the column to which a field or property will be mapped. B - The @Column annotation is applied on a class. C - Both of the above. D - None of the above. Q 19 - name attribute of @Column annotation permits the name of the column to be explicitly specified. A - true B - false Q 20 - length attribute of @Column annotation permits the size of the column used to map a value particularly for a String value. A - false B - true Q 21 - nullable attribute of @Column annotation permits the column to be marked NOT NULL when the schema is generated. A - true B - false Q 22 - Which of the following is true about HQL? A - Hibernate Query Language HQL is an object-oriented query language. B - Instead of operating on tables and columns, HQL works with persistent objects and their properties. C - Both of the above. D - None of the above. Q 23 - Which of the following is true about HQL? A - HQL queries are translated by Hibernate into conventional SQL queries which in turns perform action on database.

A - @GeneratedValue annotation takes two parameters strategy and generator.

- B The AS clause can be used to assign aliases to the classes in HQL queries.
- C Both of the above.
- D None of the above.

Q 24 - Which of the following is true about HQL?

- A Hibernate supports named parameters in its HQL queries.
- B HQL supports a range of aggregate methods, similar to SQL.
- C Both of the above.
- D None of the above.

Q 25 - Which of the following is true about INSERT CLAUSE in HQL?

- A HQL supports INSERT INTO clause only where records can be inserted from one object to another object.
- B HQL supports INSERT INTO clause without any restriction.
- C Both of the above.
- D None of the above.

ANSWER SHEET

Question Number	Answer Key
1	С
2	D
3	D
4	С
5	D
6	D
7	Α
8	В
9	В
10	Α
11	В
12	В
13	С
14	С
15	С
16	С

17	С
18	A
19	A
20	В
21	A
22	C
23	C
24	C
25	A

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```
1 - Which are the modules of Web layer?
```

A - WebSocket, Servlet, Web, Portlet (Modules in Web Layer of Spring framework)

- B WebSocket, Servlet, Web-MVC, Web
- C HTML, JSP, WEB, Portlet
- D HTML, Servlet, WEB, Portlet.
- I. Web module: This provides basic web-oriented integration features.
- II. Servlet module: Support for Servlet Listeners.
- III. WebSocket module: Support for Web Socket style messaging.
- IV. Portlet module: MVC implementation for Portlet environment.
- 2. How can you inject Java Collection in Spring?
- A Using list, set, map or props tag.
- B Using lit, set, map or collection tag.
- C Using list, set, props or collection tag.
- D Using list, collection, map or props tag.

4 major collection types are supported:

```
List – <list/>
```

Set – <set/>

Map – <map/>

Properties - <props/>

3. Length attribute of @Column annotation permits the size of the column used to map a value particularly for a String value. (hibernate-annotations)

A - false

```
B - true

@Column(name = "id")

private int id;
```

4. How to auto-inject into a field a bean by its name?

Select one or more response.

- 1. With the name attribute of the @Autowired annotation
- 2. By using the single @Qualifier annotation
- 3. By using both the @Autowired and the @Qualifier spring annotations
- 4. By using the @Autowired annotation and naming the field with the bean name.

You can use @Qualifier along with @Autowired. In fact spring will ask you explicitly select the bean if ambiguous bean type are found, in which case you should provide the qualifier:

```
@Component
@Qualifier("staff")
public Staff implements Person {}
@Component
@Qualifier("employee")
public Manager implements Person {}
```

```
@Component
public Payroll {

    private Person person;

@Autowired
public Payroll(@Qualifier("employee") Person person){
    this.person = person;
}

}

5. What are the modules of spring web flow?
a. Spring-faces
b. Spring-bundling
c. Spring-container
d. Spring-webflow
```

6. Which of the following statements are correct?

a.Bean Factory and ApplicationContext are basic container only

b.Bean Factory is basic container and ApplicationContext is advanced container

c.Bean Factory and ApplicationContext are advanced container

d.Bean Factory is advanced container and ApplicationContext is basic container

The ApplicationContext container includes all functionality of the BeanFactory container, so it is generally recommended over the BeanFactory.

7. Which of the following, parses in XML based on expression and its used extensively in conjugation with xstl?

a)JDOM parser

b)SAX parser

c) STAX parser

d) Xpath parser

XML Parser provides a way to access or modify data in an XML document

8.In Spring MVC which of the following is the front controller class that initializes the context based on the spring beans configuration?

a. org. spring framework. we b. servlet. Dispatcher Servlet

 $b. org. spring framework. we b. context. Dispatcher Servlet\ c. org. spring framework. we b. servlet\ d. org. spring framework. we b. context. Application Context$

```
9. Given the following configuration class, what are correct affirmations?
public class ApplicationConfig {
  private DataSource dataSource;
  @Autowired
  public ApplicationConfig(DataSource dataSource) {
 this.dataSource = dataSource;
 @Bean(name="clientRepository")
 ClientRepository jpaClientRepository() {
 return new JpaClientRepository();
```

- 1. @Configuration annotation is missing
- 2. Default or no-arg constructor is missing
- 3. @Bean name is ambiguous
- 4. @Bean scope is prototype

Annotating a class with the @Configuration indicates that the class can be used by the Spring IoC container as a source of bean definitions.

The @Bean annotation tells Spring that a method annotated with @Bean will return an object that should be registered as a bean in the Spring application context.

10. Which of the following is NOT the type of mapping?

- a. Instance mapping
- b. Component mapping
- c. Association mapping
- d. Class mapping
- 11.In spring bean configuration bean attribute called 'scope' defines what kind of object has to be created and returned. What returns a new bean instance each time when required?
- a.Prototype
- b.Session
- c.Singleton
- d.Global session

- 12. Which of the following explains about addClass () in the listed options jQuery addClass() Method:jQuery HTML/CSS methods
- I. This function translates a Java class name into file name
- II. This translated file name is then loaded as an input stream from the java class loader
- III. This addClass () is important if you want efficient usage of classes in your code
- a. I. II. and III
- b. I and III
- c. I and II

d. II and III

EXAMPLE:

- →Using jQuery addClass() method to create zebra stripes effect in HTML table:
- =>\$(selector).addClass(classname,function(index,oldclass)) → SYNTAX Index and oldclass are the 2 different classes added using ','.

```
<script type="text/javascript"> $(function() { $("table tr:nth-child(even)").addClass("striped"); }); </script>
```

tr.striped { border: 1px outset silver; background-color: yellow; }

- 13. What are the benefits of Spring Framework's transaction management?
- a. It Provides a consistent programming model across different transaction APIs such as JTA, JDBC, Hibernate, JPA, and JDO.
- b. It Supports declarative transaction management.
- c. It Provides a simpler API for programmatic transaction management than a number of complex transaction APIs such as JTA.
- d. All the listed
- 14. The Model-View-Controller(MVC) is an architectural pattern that does not separate an application into three main logical components: the model, the view and the controller.
- a. true
- b. False.
- 15. The application is designed around an object model. The SQL code is generated at build time and the associations between objects are supported by the persistent mechanism, and queries are specified using an object oriented expression language. This best suited for medium-sized applications with some complex transactions. Used when the mapping exceeds 25 different database products at a time. Which of the following is this called as?
- a. Application Object Mapping
- b. Expression object mapping
- c. Medium Object Mapping
- d. Object Mapping
- 16. XsltViewResolver-supports XsltView by resolving the view name of which of the following options
- a) all of the listed options
- b) VelocityView and its subclasses
- c) URL of xslt
- d)view name of the URL of the report file.

use the **XsltView** and **XsltViewResolver** in order to apply a XML stylesheet (XSL) for a specific XML document, resulting in a view (typically an HTML page) transformed by the XSL document.

- 17. What types of views supported by spring MVC for different presentation technologies
- a) JSP
- b) HTML
- c) velocity templates
- d) select all
- 18. Spring is a heavy weight framework

True

False

- 19. A very powerful and high performance querying language used to Query, retrieve, store data in DB is
- a) PLSQL
- b) HQL
- c) SQL
- d) RDBMS

20.which is correct?

- a. Hibernate is an object oriented query language
- b. It is database independent
- c.it supports pagination
- d. HQL statements will be converted to SQL or other language the database supports
- e. all the above
- 21. Which of the following is true about hibernate. Dialect property in hibernate configuration?
- A This property makes Hibernate generate the appropriate SQL for the chosen database.
- B This property makes Hibernate generate the appropriate java code for the chosen database.
- C Both of the above.
- D None of the above.

Dialect means "the variant of a language". Hibernate, as we know, is database agnostic. It can work with different databases. Therefore, at some point hibernate has to use database specific SQL. Hibernate uses "dialect" configuration to know which database you are using so that it can switch to the database specific SQL generator code wherever/whenever necessary.

- 22. When a Read-only/non strict read-write concurrency strategy is to be used?
- A Use it for reference data only.
- B Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions.
- C Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern.
- D None of the above.
- 23. When a Read-write/transactional concurrency strategy is to be used?
- A Use it for reference data only.
- B Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions
- C Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern.

D - None of the above.

b. DAO

 24. How could you externalize constants from a Spring configuration file or a Spring annotation into a.properties file? Select one or more answers 1. By using the <util:constant></util:constant> tag 2. By declaring the ConstantPlaceholderConfigurer bean post processor 3. By using the <context:property-placeholder></context:property-placeholder> tag 4. By using the c: namespace
PropertyPlaceholderConfigurer bean in Spring's application context
<pre><bean class="org.springframework.beans.factory.config.PropertyPlaceholderConfigurer" id="mailProperties"></bean></pre>
<pre><pre>property name="location" value="classpath:mail.properties" /></pre></pre>
mail.propertiessmtp.host=smtp.gmail.com
smtp.port=587
smtp.user=tom@gmail.com
<pre>smtp.pass=secret <bean class="org.springframework.mail.javamail.JavaMailSenderImpl" id="mailSender"> <pre>cproperty name="host" value="\${smtp.host}" /> <property name="port" value="\${smtp.port}"></property> <pre>cproperty name="username" value="\${smtp.user}" /> <pre>cproperty name="password" value="\${smtp.pass}" /> </pre></pre></pre></bean></pre>
25. Does sessionLocaleResolver interceptor detects if a special parameter is present in current Http req? TRUE FALSE
 26. What is a DispatcherServlet? A - DispatcherServlet is used for transaction management. B - DispatcherServlet is used for AOP. C - DispatcherServlet handles all the HTTP requests and responses. D - DispatcherServlet is used for Dependency injection.
27. The test module supports the testing of spring components with junit for testing a. true b. false
28. Which is not a module in spring framework? a. ORM

d. none

- 28. Following class can be extended to create custom event in spring.
- A SpringEvent
- B Event
- C ApplicationEvent
- D None of above

Create an event class, *CustomEvent* by extending **ApplicationEvent**. This class must define a default constructor which should inherit constructor from ApplicationEvent class.

- 29. Which is the way to provide configuration metadata to spring?
- A XML Based configuration file: All configurations are in one or multiple XML files
- B Annotation based configuration: We still have to write XML files but just to indicate "component-scan" on the packages of annotated classes.
- C Java based configuration (JavaConfig): We don't need any XML with this method of configuration. JavaConfig provides a truly object-oriented mechanism for dependency injection, meaning we can take full advantage of reusability, inheritance and polymorphism in the configuration code. Application developer has complete control over instantiation and dependency injection here.

d – all of the above

Spring configuration metadata is to tell Spring container how to initiate, configure, wire and assemble the application specific objects.

- 30. What is an after returning advice? Select a unique answer.
- 1. Advice to be executed regardless of the means by which a join point exits
- 2. Advice that surrounds a method invocation and can perform custom behavior before and after the method invocation
- 3. Advice to be executed before method invocation
- 4. Advice to be executed after a join point completes without throwing an exception

After returning advice is invoked only on normal method return, not if an exception is thrown. Such advice can see the return value, but cannot change it. org.springframework.aop

Interface AfterReturningAdvice

- 31. Which of the following tools/frameworks provides integration with Hibernate?
- A XDoclet Spring
- B-J2EE
- C Maven
- D All of the above.
- 32. Which of the following is the root node of hbm.xml file?
- A hibernate-mapping

- B hibernate-config
- C class-mapping
- D class-config
- 33. What is true about @Autowired annotation?
- A The @Autowired annotation can be used to autowire bean on the setter method.
- B This annotation provides more fine-grained control over where and how autowiring should be accomplished.
- C The @Autowired annotation can be used to autowire bean on the methods with arbitrary names and/or multiple arguments.
- D All of above
- 34. How do you turn on annotation wiring?
- A Add <annotation-context:config /> to bean configuration.
- B Add <annotation-config /> to bean configuration.
- C Add <annotation-context-config /> to bean configuration.
- D Add <context:annotation-config/> to bean configuration.
- 35. which of the following is an invalid annotation?
- @RequestParam
- @PathValid
- @Responsevalid
- @RequestMapping
- 36. Which of the following is true about Hibernate?
- A Hibernate is an Object-Relational Mapping (ORM) solution for JAVA.
- B Hibernate is an Object-Relational Mapping (ORM) solution for .NET
- C Both of the above.
- D None of the above.
- 37. Java based configuration option disables you to write most of your Spring configuration without XML but with the help of few Java-based annotations

True

False

- 38. What is singleton scope?
- A This scopes the bean definition to a single instance per Spring IoC container.
- B This scopes the bean definition to a single instance per HTTP Request.
- C This scopes the bean definition to a single instance per HTTP Session.
- D This scopes the bean definition to a single instance per HTTP Application/ Global session.
- 39. Is first level caching mandatory in hibernate?
- A true
- B false

40. Which tool helps to generate the mapping document Though many Hibernate users choose to write the XML by hand. select one a) oldgen b) younggen c) MiddlegenANS
d) Mediumgen
41. ORM stands for Object-Relational Mapping (ORM) is a programming technique for converting data between relational databases. select one TrueAns False
42. which type of annotation applies to bean property setter methods. select one a) @Requires b) @Resource c) @RequiredANS d)@Requiring
43. Element which can be used to inject a collection of name-value pairs where the name and the value can be of any type. select one a) a) set> b) <set> c) <map>ANS d) <props></props></map></set>
44. Element which can be used to inject a collection of name-value pairs where the name and the value are both Strings type. select one a) a) set> b) <set> c) <map> d) <props>ANS</props></map></set>
45. ApplicationContext implements which of the following interface that is used to obtain localized messages, with the actual implementation being pluggable I. MessageSource II. RequestMapping. Select One: a. only IANS b. only II c. Neither I or II d. Both I and II
46. How many layers are there in Hibernate architecture. select one a)3 b)4Ans c)5 d)2 47. What of the following is not correct in live environment? select one a. Constructor and properties autowiring in the same bean are not compatible

b. A bean should have a default or a no-args constructor
c. The <constructor-arg> tag could take type, name and index to reduce ambiguity</constructor-arg>
d. All of the aboveANS
48. named queries are created via which level of annotations on entities?
a. all-level
b. high-level
c. low
d. class level ANS
49. how many bean scopes are specified in singleton by default?
a.6
b.7
c.5 ans
d. none
50. in controller which is responsible for rendering the page in spring mvc
a. browser
b. httpans
c. database
d. application
51. spring can organize which type of objects?
a. application laterans
b. database layerans
c. networkans
d. browser
52. In Spring AOP, the process of linking aspect with other application types or objects to create an
advice object is called Weaving.
53. Can you inject null and empty string values in Spring? ans: yes
54. SpEL is NOT part of core container. ANS: false (it is part of core container)
55. how many instances can be created for global session: one
56. what display the data with help of model? Ans: View
57. How after advice works?
A - Run advice after a method execution regardless of its outcomeANS
B - Run advice after a class loads.
C - Run advice after http response is returned.
D - Run advice after http request is processed.

58. What is ContextStartedEvent event?

A - This event is published when the Servlet Context is either initialized or refreshed.

- B This event is published when the HTTP Request is received.
- C This event is published when the ApplicationContext is started using the start() method on the ConfigurableApplicationContext interface.--ANS
- D This event is published when the HTTP Response is returned.
- 59. Which of the following database is not supported by Hibernate?
- A DB2/NT
- B MySQL
- C FoundationDB ----ANS
- D PostgreSQL
- 60. What is the difference between save() and persist() methods of session object?
- A There is no difference.
- B save saves the object and returns status whereas persist stores status in different variable.
- C save saves the object and returns the id of the instance whereas persist do not return anything after saving the instance. -----ANS
- D None of the above.
- 61. what is required to write a basic spring program? ANS---- jdk, ide, maven, all the above
- 62. JDBC, ORM, OXM, JMS, Transactions are the modules of Data Access/ Integration layer. -----TRUE
- 63. ContextStartedEvent event is published when the ApplicationContext is started using the start () method on the ConfigurableApplicationContext interface. ----TRUE
- 64. singleton is the default scope of any spring bean. ----TRUE
- 65. ContextClosedEvent-----is published when the ApplicationContext is closed using the close() method on the ConfigurableApplicationContext interface.
- 66. When we work with an object oriented system, there is mismatch between the object model and the relational database. State True or False
- a). TRUE-----ANS
- b). FALSE
- 67. Form tags are available in springs is more compatible with html tags for better development. State True or False
- a). TRUE-----ANS
- b). FALSE
- 68. index and type can be used in the constructor-arg at the same time? State True or False
- a). TRUE-----ANS
- b). FALSE
- 69. the same XSD of BeanFactory can be used for View resolver interface? State True or False
- a). TRUE-----ANS
- b). FALSE

70	ХIЛI	Mapping file	offers which	of the fo	llowing?	Select One.
7 U.	AIVIL	. IVIADDIIIE IIIC	OHEIS WHICH	OI LITE IL		Jeiett Olie.

- a. Readable Metadata
- b. Surrogate key generation strategy
- c. Collection metadata
- d. all the listed options-----ANS
- e. Column/Table Mapping
- 71. Which of the following aspects of a project can be managed using Maven?
- A Distribution
- B mailing list
- C Both of the above. -----Ans
- D None of the above.

Builds, Documentation, Reporting, Dependencies, SCMs, Releases

72. which one is incorrect?

object is the superclass of all other classes object does not support encapsulation------Ans

- 73. where multiple components are involved in processing the request in a single transaction, which method is used to get the session object.
- a) opensession()
- b) getsession()
- c) getcurrentsession()
- d) all of the above---ans
- 73. which statement is not correct about HQL
- a) it is an object oriented query language
- b) it supports all types of operation i.e DML DDL FROM Hibernate 1.x to till now---ans
- c) it supports pagination
- d)HQL queries are compiled to sql of a database or any other native query language the target database supports.
- 74. which state does the persistent object move to when the transaction is committed and the session is closed?
- a) permanent
- b) detached---ans
- c) initial
- d) persistent
- 75. which hibernate property do you use to configure your chosen database.
- a) hibernate.configdatabase
- b) hibernate.changedatabase
- c) hibernate.setdatabase
- d) hibernate.dialect----ans

76. Which of the following tags generated by the form tag library compliant with XHTML-1.0-Strict specification and attendant DTD. "The button tag" "The checkbox tag" "The checkboxes tag" "The errors tag" "The form tag" "The hidden tag" "The input tag" "The label tag" "The option tag" "The options tag" "The password tag" "The radiobutton tag" "The radiobuttons tag" "The select tag" "The textarea tag"
77. Template engine is primarily aimed at generating which of the following XML? a. Java b. XMLANS c. XHTMLANS d. HTML5ANS
78. The Spring form tag library comes bundled in spring-webmvc.jar. State True or false a. trueans b. false
79. Which of the following tags are not available in XML schema based configuration ANS: JDX-marsheller
80. Which of the following is not a major considerations of spring web application a. Interactive and Richness b. User-Friendly c. Performance d. Tough accessibilityans
81. By using which of the following will return if caching is enabled? a. TheCache() b. isCache()Ans c. iscacheResolved() d. LoadView()

82. spring security framework focuses on which of the following?

- a. providing authentication to Java applications
- b. providing authorization to Java applications
- c. providing both authentication and authorization to Java applications---ANS
- d. none of the listed options.

Expected Questions: -----

83. In Spring AOP, 4 type of advices are supported:

before----Run advice before the method execution.

after-----Run advice after the method execution, regardless of its outcome.

after-returning advice-----Run advice after the method execution, only if the method completes successfully.

after-throwing advice-----Run advice after the method execution, only if the method exits by throwing an exception.

around-----Run advice before and after the advised method is invoked.

84.

ResourceLoader support: Spring's Resource interface use a flexible generic abstraction for handling low-level resources. An application context itself is a ResourceLoader, hence provides an application with access to deployment-specific Resource instances.

MessageSource support: The application context implements MessageSource, an interface used to obtain localized messages, with the actual implementation being pluggable.

85. Which of the following are the best practices for writing spring XML Configurations?

- 1) Add a header comment to each configuration file
- 2) Use consistent naming conventions
- 3) No version numbers in schema references
- 4) Prefer setter injection over constructor injection
- 5) Prefer type over index for constructor argument matching
- 6) Use shortcut forms over expanded forms
- 7) Reuse bean definitions as much as possible
- 8) Always use ids as bean identifiers
- 9) Try to avoid autowiring
- 10) Always use classpath prefix
- 11) Always externalize properties
- 12) Use dependency-check at the development phase
- 13) Do not abuse/overuse dependency injection

86. Spring framework architecture:	

Data Access/Integration--JDBC, ORM, OXM, JMS, Transactions Web(MVC/Remoting) -- WebSocket, Servlet, Web, Portlet AOP
Aspects
Instrumentation
Messaging
Core container--Beans, Core, Context and spEL
Test

87.

Spring BeanFactory Container-org.springframework.beans.factory.BeanFactoryinterface. Spring ApplicationContext Container-org.springframework.context.ApplicationContext

88. Bean Scopes:	

Scope: Description

Singleton: This scopes the bean definition to a single instance per Spring IoC container (default).

<u>Prototype</u>: This scopes a single bean definition to have any number of object instances.

<u>Request</u>: This scopes a bean definition to an HTTP request. Only valid in the context of a web-aware Spring ApplicationContext.

<u>Session:</u> This scopes a bean definition to an HTTP session. Only valid in the context of a web-aware Spring ApplicationContext.

global-session: This scopes a bean definition to a global HTTP session. Only valid in the context of a webaware Spring ApplicationContext.

89. Spring-Injecting Collection:

Element Description

< ->This helps in wiring i.e., injecting a list of values, allowing duplicates.

<set> ->This helps in wiring a set of values but without any duplicates.

<map> -> This can be used to inject a collection of name-value pairs where the name and the value can be of any type.

90. Autowiring	Mod	es:
----------------	-----	-----

Mode

Description

 $\underline{\text{No}}$ => This is a default setting which means no autowiring and you should use explicit bean reference for wiring. You have to do nothing special for this wiring. This is what you already have seen in Dependency Injection chapter.

<u>byName</u> => Autowiring by property name. Spring container looks at the properties of the beans on which autowire attribute is set to byName in the XML configuration file. It then tries to match and wire its properties with the beans defined by the same names in the configuration file.

<u>byType</u>=>Autowiring by property datatype. Spring container looks at the properties of the beans on which attribute is set to byType in the XML configuration file. It then tries to match and wire a property if its type matches with exactly one of the beans name in the configuration file. If more than one such beans exists, a fatal exception is thrown.

<u>Constructor</u>=>Similar to byType, but this type applies to constructor arguments. If there is not exactly one bean of the constructor argument type in the container, a fatal error is raised.

<u>autodetect</u> =>Spring first tries to wire using autowire by constructor, if it does not work, Spring tries to autowire by byType.

Autowiring Limitations:	

<u>Overriding possibility</u>-----You can still specify dependencies using <constructor-arg> and settings which will always override autowiring.

<u>Primitive data types</u>-----You cannot autowire so-called simple properties such as primitives, Strings, and Classes.

Description

<u>Confusing nature</u>-----Autowiring is less exact than explicit wiring, so if possible prefer using explicit wiring.

91.

Limitations

@Required----The @Required annotation applies to bean property setter methods

@Autowired----The @Autowired annotation can apply to bean property setter methods, nonsetter methods, constructor and properties.

@Qualifier----The @Qualifier annotation along with @Autowired can be used to remove the confusion by specifying which exact bean will be wired.

JSR-250 Annotations ---- Spring supports JSR-250 based annotations which include @Resource, @PostConstruct and @PreDestroy annotations. (Go through these annotations also)

92.

@Configuration----indicates that the class can be used by the Spring IoC container as a source of bean definitions.

@Bean----annotation tells Spring that a method annotated with @Bean will return an object that should be registered as a bean in the Spring application context

@Import----annotation allows for loading @Bean definitions from another configuration class

93.	Spring	Event F	Handling	; :		

ContextRefreshedEvent-----This event is published when the ApplicationContext is either initialized or refreshed. This can also be raised using the refresh() method on the ConfigurableApplicationContext interface.

ContextStartedEvent-----This event is published when the ApplicationContext is started using the start() method on the ConfigurableApplicationContext interface. You can poll your database or you can restart any stopped application after receiving this event.

ContextStoppedEvent-----This event is published when the ApplicationContext is stopped using the stop() method on the ConfigurableApplicationContext interface. You can do the required housekeep work after receiving this event.

ContextClosedEvent-----This event is published when the ApplicationContext is closed using the close() method on the ConfigurableApplicationContext interface. A closed context reaches its end of life; it cannot be refreshed or restarted.

beans that an HTTP request has been

RequestHandledEventThis is a web-specifi serviced.	c event telling all
94. AOP Terminologies:	
Terms	Description

<u>Aspect</u>->This is a module which has a set of APIs providing cross-cutting requirements. For example, a logging module would be called AOP aspect for logging. An application can have any number of aspects depending on the requirement.

<u>Join Point</u>->This represents a point in your application where you can plug-in the AOP aspect. You can also say, it is the actual place in the application where an action will be taken using Spring AOP framework.

<u>Advice</u>->This is the actual action to be taken either before or after the method execution. This is an actual piece of code that is invoked during the program execution by Spring AOP framework.

<u>Pointcut</u>->This is a set of one or more join points where an advice should be executed. You can specify pointcuts using expressions or patterns as we will see in our AOP examples.

<u>Introduction</u>->An introduction allows you to add new methods or attributes to the existing classes.

<u>Target Object</u>->The object being advised by one or more aspects. This object will always be a proxied object, also referred to as the advised object.

<u>Weaving</u>->Weaving is the process of linking aspects with other application types or objects to create an advised object. This can be done at compile time, load time, or at runtime.

	
Approach	Description
XML Schema based→Aspects are implemented using to configuration.	the regular classes along with XML based
@AspectJ based → @AspectJ refers to a style of declaring Java 5 annotations.	ing aspects as regular Java classes annotated with
96. Spring Transaction Management:	
ACID:	

<u>Atomicity</u>: A transaction should be treated as a single unit of operation, which means either the entire sequence of operations is successful or unsuccessful.

95. Custom Aspects Implementation:

<u>Consistency</u>: This represents the consistency of the referential integrity of the database, unique primary keys in tables, etc.

<u>Isolation</u>: There may be many transaction processing with the same data set at the same time. Each transaction should be isolated from others to prevent data corruption.

<u>Durability</u>: Once a transaction has completed, the results of this transaction have to be made permanent and cannot be erased from the database due to system failure.

Methods and	description:
-------------	--------------

<u>TransactionStatus.getTransaction(TransactionDefinition definition</u>) → This method returns a currently active transaction or creates a new one, according to the specified propagation behavior.

<u>void commit(TransactionStatus status)</u> → This method commits the given transaction, with regard to its status.

<u>void rollback(TransactionStatus status)</u> → This method performs a rollback of the given transaction.

<u>int getPropagationBehavior()</u> This method returns the propagation behavior. Spring offers all of the transaction propagation options familiar from EJB CMT.

<u>int getIsolationLevel()</u> → This method returns the degree to which this transaction is isolated from the work of other transactions.

String getName()→This method returns the name of this transaction.

int getTimeout()→This method returns the time in seconds in which the transaction must complete.

boolean isReadOnly()→This method returns whether the transaction is read-only.

97.	iso	lati	on l	level	s:

TransactionDefinition.ISOLATION DEFAULT→This is the default isolation level.

<u>TransactionDefinition.ISOLATION_READ_COMMITTED</u> → Indicates that dirty reads are prevented; non-repeatable reads and phantom reads can occur.

<u>TransactionDefinition.ISOLATION_READ_UNCOMMITTED</u> → Indicates that dirty reads, non-repeatable reads, and phantom reads can occur.

<u>TransactionDefinition.ISOLATION_REPEATABLE_READ</u> → Indicates that dirty reads and non-repeatable reads are prevented; phantom reads can occur.

<u>TransactionDefinition.ISOLATION</u> <u>SERIALIZABLE</u> → Indicates that dirty reads, non-repeatable reads, and phantom reads are prevented.

98. Propagation types:

<u>TransactionDefinition.PROPAGATION MANDATORY</u> → Supports a current transaction; throws an exception if no current transaction exists.

<u>TransactionDefinition.PROPAGATION_NESTED</u> → Executes within a nested transaction if a current transaction exists.

<u>TransactionDefinition.PROPAGATION_NEVER</u> → Does not support a current transaction; throws an exception if a current transaction exists.

<u>TransactionDefinition.PROPAGATION_NOT_SUPPORTED</u> → Does not support a current transaction; rather always execute nontransactionally.

<u>TransactionDefinition.PROPAGATION_REQUIRED→</u>Supports a current transaction; creates a new one if none exists.

<u>TransactionDefinition.PROPAGATION_REQUIRES_NEW</u> → Creates a new transaction, suspending the current transaction if one exists.

<u>TransactionDefinition.PROPAGATION_SUPPORTS</u> → Supports a current transaction; executes non-transactionally if none exists.

<u>TransactionDefinition.TIMEOUT_DEFAULT</u> → Uses the default timeout of the underlying transaction system, or none if timeouts are not supported.

100. There are four fetching strategies

1. fetch- "join" = Disable the lazy loading, always load all the collections and entities.

- 2. <u>fetch</u>- "select" (default) = Lazy load all the collections and entities.
- 3. <u>batch</u>- size =" N" = Fetching up to 'N' collections or entities, *Not record*.
- 4<u>. fetch</u>- "subselect" = Group its collection into a sub select statement.

Topics to read:

- * HQL
- *Tools in hibernate
- *Interceptors in hibernate
- *Annotations in both spring and hibernate
- *specifications for Java API (e.g.: JSR-250, JSR-303)
- *Interfaces and classes in both spring and hibernate (e.g.: ViewResolver is an interface)
- *Mapping in hibernate (e.g.: Middlegen is a tool)
- 1. different fetching strategy of hibernate?
- 2. what are the aspects project manager using maven?

Distribution

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- 3. what are the different presentation technique?
- Jsp, lotusnotes, HTML
- 4. how to disable the second cache?
- Q 1 Which of the following is correct about dependency injection?
- A It helps in decoupling application objects from each other.
- B It helps in deciding the dependencies of objects.
- C It stores objects states in database.
- D It stores object states in file system.
- Q 2 Which of the following stands true for spring beans?
- A Spring beans are managed by the Spring IoC container.
- B Spring beans are instantiated, assembled, and otherwise managed by a Spring IoC container.
- C Spring beans are simple POJOs.
- D All of the above.

Q 3 - What is true about <list> collection configuration elements?</list>
A - This helps in wiring a list of values, allowing duplicates.
B - This helps in wiring a list of values but without any duplicates.
C - This can be used to inject a collection of name-value pairs where name and value can be of any type.
D - This can be used to inject a collection of name-value pairs where the name and value are both Strings.
Q 4 -Can you inject null and empty string values in Spring? A - Yes B - No
Q 5 - What is Advice?
A - This is the way to instruct object to behave in certain manner.
B - This is used to inject values in objects.
C - This is the actual action to be taken either before or after the method execution.
D - This is not invoked during program execution by Spring AOP framework.
Q 6 - What is Introduction?
A - An introduction represents a point in your application where you can plug-in AOP aspect.
B - This is used to inject values in objects.
C - This is not invoked during program execution by Spring AOP framework.
D - An introduction allows you to add new methods or attributes to existing classes.
Q 7 - How to use ref keyword in beans.xml?
A - Using setter method only.

B - Using constructor argument only. C - Using setter method and constructor argument both. D - None of the above. Q 8 - By default a bean is eagerly loaded. A - False B - True Q 9 - A bean must have id attribute in beans configuration file. A - True B - False Q 10 - What is a DispatcherServlet? A - DispatcherServlet is used for transaction management. B - DispatcherServlet is used for AOP. C - DispatcherServlet handles all the HTTP requests and responses. D - DispatcherServlet is used for Dependency injection. Q 11 - Which of the statement is not correct? A - Core and beans modules provide the fundamental parts of the framework, including Dependency Injection feature. B - The SpEL module provides a powerful Expression Language for querying and manipulating an object graph at runtime. C - Aspects module provides integration with AspectJ. D - None of the above. Q 12 - What is singleton scope?

A - This scopes the bean definition to a single instance per Spring IoC container.
B - This scopes the bean definition to a single instance per HTTP Request.
C - This scopes the bean definition to a single instance per HTTP Session.
D - This scopes the bean definition to a single instance per HTTP Application/ Global session.
Q 13 - What is ContextClosedEvent event?
A - This event is published when the Servlet Context is either initialized or refreshed.
B - This event is published when the HTTP Request is received.
C - This event is published when the HTTP Response is returned.
D - This event is published when the ApplicationContext is closed using the close() method on the ConfigurableApplicationContext interface.
Q 14 - What is Weaving?
A - Weaving is the process of injecting values in objects to create an advised object.
B - Weaving is the process of linking aspects with other application types or objects to create an advised object.
C - This is used to inject values in objects.
D - Weaving is used to check object dependencies.
D - Weaving is used to check object dependencies. Q 15 - Which ORM Spring supports ?
Q 15 - Which ORM Spring supports ?
Q 15 - Which ORM Spring supports ? A - Hibernate

Q 16 - What stands true for spring framework?
A - Spring framework is a light weight framework.
B - Spring framework is a heavy weight framework.
Q 17 - How to handle shut down of IoC container?
A - Using shutdownHook()
B - Using shutdownHandler()
C - Using registerHook()
D - Using registerShutdownHook()
Q 18 - Which of the following class can be used to execute Sql queries in spring?
B - JDBCHelper
A - JdbcTemplate
C - DBHelper
D - DBTemplate
Q 19 - Which is the correct implementation class of BeanFactory?
A - XmlBeanFactory
B - ClassPathBeanFactory
C - FileSystemBeanFactory
D - AdvancedBeanFactory
Q 20 - What is bean autowiring?

A - Autowiring lets Spring resolve collaborators (other beans) for your bean by inspecting the contents of the BeanFactory without using <constructor-arg> and property> elements. B - Autowiring injects values in spring beans. C - Autowiring injects one bean into another. D - Autowiring helps in wiring a list of values, allowing duplicates. Q 21 - How to get object of a service in spring framework? A - Using new keyword B - Using dependency injection Q 22 - If a bean is scoped to HTTP request, scope is A - session B - global-session C - prototype D - request Q 23 - Can be bean be configured to have an inner bean? A - True B - False Q 24 - Which are the modules of Web layer? A - WebSocket, Servlet, Web, Portlet B - WebSocket, Servlet, Web-MVC, Web C - HTML, JSP, WEB, Portlet

D - HTML, Servlet, WEB, Portlet

Q 25 - 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.
C - This scopes the bean definition to HTTP request.
D - This scopes the bean definition to HTTP Session.
Q 26 - What is Target object?
A - A represents a object in your application where you can plug-in AOP aspect.
B - The object being advised by one or more aspects, this object will always be a proxy object, also referred to as the advised object.
C - This is used to inject values in objects.
D - This is not invoked during program execution by Spring AOP framework.
Q 27 - Core container has AOP as one of its module.
A - True
B - False
Q 28 - Which class is used to map a database row to a java object in spring?
A - ResultSet
B - RowMapper
C - RowSetMapper
D - ResultSetMapper
Q 29 - Which are the modules of Data Access/ integration layer?

A - JDBC, ORM, OXM, JMS, Transactions

- B-JDBC, ORM, OXM, JMS
- C JDBC, ORM, Web, Beans
- D JDBC, ORM, OXM, JMS
- Q 30 Which of the statement is correct?
- A The JDBC module provides a JDBC-abstraction layer that removes the need to do tedious JDBC related coding.
- B The ORM module provides integration layers for popular object-relational mapping APIs, including JPA, JDO, Hibernate, and iBatis.
- C The Java Messaging Service JMS module contains features for producing and consuming messages.
- D All of the above.
- Q 31 What is true about <map> collection configuration elements?
- A This helps in wiring a list of values, allowing duplicates.
- B This helps in wiring a list of values but without any duplicates.
- C This can be used to inject a collection of name-value pairs where name and value can be of any type.
- D This tag is not supported.
- Q 32 What is true about @Autowired annotation?
- A The @Autowired annotation can be used to autowire bean on the setter method.
- B This annotation provides more fine-grained control over where and how autowiring should be accomplished.

$\mbox{\ensuremath{\text{C}}}$ - The @Autowired annotation can be used to autowire bean on the methods with arbitrary names and/or multiple arguments.
D - All of above.
Q 33 - How do you turn on annotation wiring?
A - Add <annotation-context:config></annotation-context:config> to bean configuration.
B - Add <annotation-config></annotation-config> to bean configuration.
C - Add <annotation-context-config></annotation-context-config> to bean configuration.
D - Add <context:annotation-config></context:annotation-config> to bean configuration.
Q 34 - How after-throwing advice works?
A - Run advice after a method execution only if method exits by throwing an exception.
B - Run advice after a class loads only if class throws exception during load time.
C - Run advice after http response is returned with error status.
D - Run advice after http request is processed and an exception occurred.
Q 35 - Expression Language/ SpEL was introduced in which version of spring framework.
A - 1.0
B - 2.0
C - 3.0
D - 4.0
Q 36 - Can we inject value and ref both together in a bean?
A - True
B - False

Q 37 - What is true about <set> collection configuration elements?</set>
A - This helps in wiring a list of values, allowing duplicates.
B - This helps in wiring a list of values but without any duplicates.
C - This can be used to inject a collection of name-value pairs where name and value can be of any type.
D - This can be used to inject a collection of name-value pairs where the name and value are both Strings.
Q 38 - What are the different points where weaving can be applied?
A - Compile time, load time
B - Compile time, run time
C - Run time
D - Compile time, load Time, Run time
Q 39 - Which of the following is part of Data Access layer in Spring framework?
A - Beans
B - Aspects
C - JMS
D - Context
Q 40 - What BeanPostProcessor does?
A - It processes beans once a bean is initialized.
B - It defines callback methods that you can implement to provide your own instantiation logic, dependency-resolution logic etc.

C - It processes beans once a bean is loaded. D - It processes beans once a bean exits. Q 41 - Which are the IoC containers in Spring? A - BeanFactory, ApplicationContext B - BeanFactory, ApplicationContext, IocContextFactory C - BeanFactory, BeanContext, locContextFactory D - BeanFactory, ApplicationContext, BeanContext Q 42 - What is no mode of autowiring? A - Default setting which means no autowiring and you should use explicit bean reference for wiring. B - Autowiring by property name. C - Spring first tries to wire using autowire by constructor, if it does not work, Spring tries to autowire by byType. D - Similar to byType, but type applies to constructor arguments. Q 43 - What is ContextRefreshedEvent event? A - This event is published when the Servlet Context is either initialized or refreshed. B - This event is published when the HTTP Request is received. C - This event is published when the HTTP Response is returned. D - This event is published when the ApplicationContext is either initialized or refreshed. Q 44 - How after-returning advice works? A - Run advice after a class loads only if class loads successfully.

B - Run advice after a method execution only if method completes successfully.
C - Run advice after http response is returned only if http response is success.
D - Run advice after http request is processed with no exception.
Q 45 - What are the types of the transaction management Spring supports?
A - Programmatic transaction management
B - Declarative transaction management
C - Both of above.
D - None of above.
Q 46 - 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.
C - Logging is one of the examples of cross cutting concerns.
D - All of the above.
Q 47 - Which is the way to provide configuration metadata to spring?
A - XML Based configuration file.
B - Annotation based configuration.
C - Java based configuration.
D - All of the above.
Q 48 - What is true about <props> collection configuration elements?</props>
A - This helps in wiring a list of values, allowing duplicates.

- B This helps in wiring a list of values but without any duplicates.
- C This can be used to inject a collection of name-value pairs where name and value can be of any type.
- D This can be used to inject a collection of name-value pairs where the name and value are both Strings.
- Q 49 What is byType mode of autowiring?
- A Default setting which meas no autowiring and you should use explicit bean reference for wiring.
- 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.
- C Spring first tries to wire using autowire by constructor, if it does not work, Spring tries to autowire by byType.
- 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.
- Q 50 What is Join point?
- A This represents a point in your application which joins two objects.
- B This represents a point in your object where you join values.
- C This represents a point in your object where you join injected values.
- D This represents a point in your application where you can plug-in AOP aspect.
- Q 51 What are the ways to access Hibernate by using Spring?
- A Inversion of Control with a Hibernate Template and Callback.
- B Extending HibernateDAOSupport and Applying an AOP Interceptor node.
- C Both of above.
- D None of above.

Q 52 - SpEL is part of core container.
A - False
B - True
Q 53 - If a bean can be created any number of times, scope is
A - session
B - global-session
C - prototype
D - request
Q 54 - What is spring?
A - Spring is an open source development framework for enterprise Java.
B - Spring is a proprietary framework.
C - Spring is a development framework for .Net applications.
D - Spring is a development framework for PHP based applications.
Q 55 - What is prototype scope?
A - This scopes a single bean definition to have any number of object instances.
B - This scopes the bean definition to a single instance per HTTP Request.
C - This scopes the bean definition to a single instance per HTTP Session.
D - This scopes the bean definition to a single instance per HTTP Application/ Global session.
Q 56 - What does @Required annotation mean?

A - This annotation indicates that bean property must be populated by the user.
B - This annotation indicates that bean property is required while saving the bean data to database.
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.
Q 57 - How before advice works?
A - Run advice before a class loads.
B - Run advice before a method execution.
C - Run advice before http response is to be returned.
D - Run advice before http request is to be processed.
Q 58 - Which of the following database is not supported using jdbcTemplate?
A - MySql
B - PostgresSql
C - NoSql
D - Oracle
Q 59 - What is the scope of stateless bean?
A - global-session
B - singleton
C - prototype
D - request

Q 60 - Which are the modules of core container?
A - Beans, Core, Context, SpEL
B - Core, Context, ORM, Web
C - Core, Context, Aspects, Test
D - Bean, Core, Context, Test
Q 61 - How can you inject Java Collection in Spring?
A - Using list, set, map or props tag.
B - Using lit, set, map or collection tag.
C - Using list, set, props or collection tag.
D - Using list, collection, map or props tag.
Q 62 - What is aspect?
A - Aspect is a way to do the dependency injection.
B - A module which has a set of APIs providing cross-cutting requirements.
C - Aspect is used to log information of application.
D - Aspect represents properties of spring based application.
Q 63 - What are the types of advice?
A - then, after, after-returning, after-throwing, around
B - When, after, after-returning, around
C - Where, after, after-returning, after-throwing, around
D - Before, after, after-returning, after-throwing, around

Q 64 - Can we integrate Struts with Spring.
A - Yes B - No
Q 65 - Which are the different modes of autowiring?
A - no, byName, byType, constructor, autodetect
B - no, byName, byType, constructor, autocorrect
C - byName, byContent, constructor, autodetect
D - byName, byContent, setter, autodetect
Q 66 - By default a bean is eagerly loaded.
A - False B - True
Q 67 - Where do you define DispatcherServlet?
A - In Beans configuration file.
B - Web.xml file
C - Meta-inf/dispatcher.xml
D - Web-inf/ dispatcher.xml
Q 68 - How after advice works?
A - Run advice after a method execution regardless of its outcome.
B - Run advice after a class loads.

C - Run advice after http response is returned.

D - Run advice after http request is processed.

Q 69 - What is true about BeanPostProcessor?
A - It is a concrete class.
B - It is an interface.
C - It is an abstract class.
D - None of the above.
Q 70 - What is ContextStartedEvent event?
A - This event is published when the Servlet Context is either initialized or refreshed.
B - This event is published when the HTTP Request is received.
C - This event is published when the ApplicationContext is started using the start() method on the ConfigurableApplicationContext interface.
D - This event is published when the HTTP Response is returned.
Q 71 - What is Spring MVC framework?
A - Spring MVC framework is Model-Value-Class architecture and used to bind model data with values.
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.
D - Spring MVC framework is used for AOP for Web Applications.
Q 72 - What is @Controller annotation?
A - The @Controller annotation indicates that a particular class serves the role of a controller.
B - The @Controller annotation indicates how to control the transaction management.

C - The @Controller annotation indicates how to control the dependency injection. D - The @Controller annotation indicates how to control the aspect programming. Q 73 - What is ACID in transactional management? A - Accurate, Controlled, Isolation, Durability B - Atomicity, Consistency, Independent, Done C - Atomicity, Consistency, Isolation, Durability D - Accurate, Controlled, Independent, Done Q 74 - What is RequestHandledEvent:event? A - This event is published when the Servlet Context is either initialized or refreshed. B - This event is published when the HTTP Request is received. C - This event is published when the HTTP session is initialized or refreshed. D - This event is published when the HTTP Request is serviced. Q 75 - Which of the following stands true for spring beans? A - Spring beans are managed by the Spring IoC container. B - Spring beans are instantiated, assembled, and otherwise managed by a Spring IoC container. C - Spring beans are simple POJOs. D - All of the above. Q 76 - What is default scope of bean in Spring framework? A - singleton B - prototype

C - request
D - session
Q 77 - What is the scope of bean in portlet context?
A - session
B - global-session
C - prototype
D - request
Q 78 - Following class can be extended to create custom event in spring.
A - SpringEvent
B - Event
C - ApplicationEvent
D - None of above
Q 79 - What is autodetect mode of autowiring?
A - Similar to byType, but type applies to constructor arguments. If there is not exactly one bean of the constructor argument type in the container, a fatal error is raised.
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.
C - Spring first tries to wire using autowire by constructor, if it does not work, Spring tries to autowire by byType.
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.
Q 80 - What is Pointcut?

A - This represents a point in your application where you can plug-in AOP aspect. B - This is a set of one or more joinpoints where an advice should be executed. C - This is used to inject values in objects. D - This is invoked during program execution by Spring AOP framework. Q 81 - Which class acts as IoC Container? A - ServletContext B - DispatcherServlet C - ApplicationContext D - None of the above Q 82 - What is constructor mode of autowiring? A - Autowiring by property name. Spring tries to match and wire its properties with the beans defined by the same names in the configuration file. B - Spring first tries to wire using autowire by constructor, if it does not work, Spring tries to autowire by byType. C - 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. D - Similar to byType, but type applies to constructor arguments. If there is not exactly one bean of the constructor argument type in the container, a fatal error is raised. Q 83- How bean life cycle can be controlled? A - Using init() only B - Using InitializingBean class only C - Using DisposableBean class only D - Using All of above

Q 84 - Which of the following class can be used to call Stored Procedures in spring?
A - SPHelper
B - JdbcTemplateCall
C - JdbcTemplate
D - SimpleJdbcCall
Q 85 - Which are the correct implementation classes of ApplicationContext?
A - FileSystemXmlApplicationContext, ClassPathXmlApplicationContext, WebXmlApplicationContext
B - FileSystemApplicationContext, ClassPathApplicationContext, WebApplicationContext
C - AdvancedApplicationContext, FileApplicationContext
D - FileSystemApplicationContext, ClassPathApplicationContext
Q 86 - How around advice works?
A - Run advice before and after the advised method is invoked.
B - Run advice before and after a class is loaded.
C - Run advice before and after http response is returned.
D - Run advice before and after http request is processed.
Q 87 - Which of the following is correct assertion about spring?
Q 87 - Which of the following is correct assertion about spring? A - Spring enables developers to develop enterprise-class applications using POJOs.

```
1) Given the following configuration class, what are correct affirmations? Select one or more answers.
  public class ApplicationConfig {
  private DataSource dataSource;
  @Autowired
  public ApplicationConfig(DataSource dataSource) {
 this.dataSource = dataSource;
 @Bean(name="clientRepository")
 ClientRepository jpaClientRepository() {
 return new JpaClientRepository();
1. @Configuration annotation is missing-----ANS
2. Default or no-arg constructor is missing------ANS
3. @Bean name is ambiguous
4. @Bean scope is prototype
2)<id name="deptId" type="string">
<column name="columnid" length="30"/>
<generatoers/>
<id/>
[/xml]
The above is an example of creatinf which key?
Select One:
a.DB key
b.Unique key
c.Secondary key
d.Primary key-----ANS
3)ApplicationContext implements which of the following interface that is used to obtain localized
messages, with the actual implementation being pluggable
I. MessageSource
II. RequestMapping
Select One:
a. only I-----ANS
b.only II
c. Neither I or II
d. Both I and II
4). Which of the following is a many to one relationship
```

a) many-to-one b) <many-to-one>ANS c) None of the list d) <manyone></manyone></many-to-one>
5)What of the following is not correct in live environment?
select one a. Constuctor and properties autowiring in the same bean are not compatible b. A bean should have a default or a no-args constructor c. The <constructor-arg> tag could take type, name and index to reduce ambiguity d. All of the aboveANS(not sure)</constructor-arg>
6)Which of the following is not available in HQL select one a) Select b)Where c)SubAns(not sure) d)Having
7)maven is a project management and comprehension too select one TrueAns False
8)How many layers are there in Hibernate architechture select one a)3Ans(not sure) b)4 c)5 d)2
9)Beans,Core, Context,spEL are the components in Core container select one TrueAns False
10) PROPAGATION_REQUIRES_NEW
Ans: Creates a new transaction, suspending the current transaction if one exists.
11)Element which can be used to inject a collection of name-value pairs where the name and the value can be of any type.
select one a) st> b)<set> c)<map>ANS</map></set>

d) <pre>coprops></pre>
12)Element which can be used to inject a collection of name-value pairs where the name and the value are both Strings type.
select one a)< ist> b) <set> c)<map> d)<pre>cprops>ANS</pre></map></set>
13)which type of annotation applies to bean property setter methods select one a)@Requires b)@Resource c)@RequiredANS d)@Requiring
14)ORM stands for Object-Relational Mapping (ORM) is a programming technique for converting data between relational databases. select one TrueAns False
15)Which tool helps to generate the mapping document Though many Hibernate users choose to writ the XML by hand select one a)oldgen b)younggen c)MiddlegenANS d) Mediumgen
16)Java based configuration option disables you to write most of your Spring configuration without XN but with the help of few Java-based annotations select one True FalseAns
17) What types of views supported by spring MVC for different presentation technologies select one or more a)JSP b)HTML c)velocity templates d)
Ans: select all

18)Spring is a heavy weight framework select one	
True	
FalseAns	
19)A very powerful and high performance qurerying language used to Query,retrive,store data in DB select one a)PLSQL b)HQLANS(not sure) c)SQL d)RDBMS	3 is

20) which of the following options about Auto wiring in spring are correct?

- I. The Auto wiring in spring framework can be performed by configuring in xml and spring Auto-Wiring with Annotation @Autowired
- II. Auto-wiring beans with xml configuration: In Spring framework, you can wire beans automatically with auto wiring feature
- III. To enable auto-wiring just define the "autowire" attribute in <bean> tag.

Select One:
a.I, II, and III-----ANS
b.I and III
c.I and II
d.II and III

Topics to read:

- * HQL
- *Tools in hibernate
- *Interceptors in hibernate
- *Annotations in both spring and hibernate
- *specifications for Java API (eg:JSR-250,JSR-303)
- *Interfaces and classes in both spring and hibernate(eg: ViewResolver is a interface)
- *Mapping in hibernate(eg: Middlegen is a tool)

Q 1 - What ORM stands for?
A - Object Relation Map
B - Object Relational Mapping
C - Object Record Mapping
D - None of the above.
Q 2 - Which of the following is true about configuration component of Hibernate?
A - The Configuration object is the first Hibernate object you create in any Hibernate application.
B - The Configuration object is usually created only once during application initialization.
C - The Configuration object represents a configuration or properties file required by the Hibernate.
D - All of the above.
Q 3 - Session.createQuery creates a new instance of Query for the given HQL query string.
A - true
B - false
Q 4 - Which element of hbm.xml defines maps the unique ID attribute in class to the primary key of the database table?
A - id
B - generator
C - primaryKey
D - None of the above.
Q 5 - Which of the following element maps java.util.SortedMap property in hibernate?
A - <set></set>
B - <list></list>
C - <bag></bag>

D - <map> Q 6 - What is lazy loading? A - Lazy loading is a technique in which objects are loaded on demand basis. B - Lazy loading is a technique in which objects are persisted on demand basis. C - Both of the above. D - None of the above. Q 7 - What is first level cache in hibernate? A - The first-level cache is the Session based cache. B - The first-level cache is the SessionFactory based cache. C - Both of the above. D - None of the above. Q8 - When a Transactional concurrency strategy is to be used? A - Use it for reference data only. B - Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions. C - Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern. D - None of the above. Q 9 - Which of the following is a core component of Hibernate? A - Transaction B - SessionFactory

C - Session

D - All of the above

Q 10 - Which of the following is true about @GeneratedValue annotation?
A - @GeneratedValue annotation takes two parameters strategy and generator.
B - @GeneratedValue annotation provides the primary key generation strategy to be used.
C - Both of the above.
D - None of the above.
Q 11 - Which of the following is not an ORM framework?
A - Castor
B - Spring DAO
C - Hibernate
D - NoSQL
Q 12 - Which of the following is true about SessionFactory object in hibernate?
A - The SessionFactory is heavyweight object.
B - SessionFactory object is created during application start up and kept for later use.
C - You would need one SessionFactory object per database using a separate configuration file.
D - All of the above.
Q 13 - Which of the following is true about transient state of a persistent entity?
A - A new instance of a persistent class which is not associated with a Session.
B - A new instance of a persistent class which has no representation in the database.
C - A new instance of a persistent class which has no identifier value.
D - All of the above.
Q 14 - Which method is used to re-read the state of the given instance from the underlying database?

A - Session.refresh()
B - Session.get()
C - Session.reload()
D - Session.retrieve()
Q 15 - Which of the following element maps java.util.List property in hibernate?
A - <set></set>
B - <list></list>
C - <bag></bag>
D - <map></map>
Q 16 - Child objects are not loaded when parent is loaded/populated from database. What this technique is called?
A - Eager Loading
B - Lazy Loading
C - Request based Loading
D - None of the above.
Q 17 - What HQL stands for?
A - Hibernate Query Language
B - High Query Language
C - Hybrid Query Language
D - None of the above.
Q 18 - Which of the following database is not supported by Hibernate?
A - Oracle
B - Microsoft SQL Server Database

C - FoundationDB
D - Informix Dynamic Server
Q1 9 - A Session is used to get a physical connection with a database.
A - true
B - false
D - Taise
Q 20 - Which of the following is true about HQL?
A - Hibernate supports named parameters in its HQL queries.
B - HQL supports a range of aggregate methods, similar to SQL.
C - Both of the above.
D - None of the above.
Q 21 - Which of the following is true about Hibernate?
A - Hibernate is an Object-Relational Mapping(ORM) solution for JAVA.
B - Hibernate is an Object-Relational Mapping(ORM) solution for .NET
C - Both of the above.
D - None of the above.
Q 22 - Which of the following is true about hibernate.dialect property in hibernate configuration?
A - This property makes Hibernate generate the appropriate SQL for the chosen database.
B - This property makes Hibernate generate the appropriate java code for the chosen database.
C - Both of the above.
D - None of the above.
Q 23 - Which method is used to save the state of the given instance from the underlying database?
A - Session.store()

B - Session.keep()
C - Session.save()
D - Session.load()
Q 24 - Which of the following element maps java.util.Map property in hibernate?
A - <set></set>
B - <list></list>
C - <bag></bag>
D - <map></map>
Q 25 - What is Query level cache in hibernate?
A - The query-level cache is cache for query resultsets that integrates closely with the second-level cache.
B - The query-level cache is the Session based cache.
C - Both of the above.
D - None of the above.
Q 26 - Which of the following is a concurrency strategies in hibernate?
A - Transactional
B - Read-write
B - Read-write C - Nonstrict-read-write.
C - Nonstrict-read-write.
C - Nonstrict-read-write.

B - Hibernate assumes that it should access properties on an object directly through fields at runtime.

C - Both of the above.
D - None of the above.
Q 28 - Which of the following is true about HQL?
A - HQL queries are translated by Hibernate into conventional SQL queries which in turns perform action on database.
B - The AS clause can be used to assign aliases to the classes in HQL queries.
C - Both of the above.
D - None of the above.
Q 29 - Which of the following is true about ORM?
A - ORM stands for Object-Relational Mapping.
B - ORM is a programming technique for converting data between relational databases.
C - Both of the above.
D - None of the above.
Q 30 - Which of the following is true about Query object in hibernate?
A - Query objects Hibernate Query Language (HQL) string to retrieve data from the database and create objects.
B - Query objects SQL string to retrieve data from the database and create objects.
C - A Query instance is used to bind query parameters, limit the number of results returned by the query, and finally to execute the query.
D - All of the above.
Q 31 - Session.createSQLQuery creates a new instance of Query for the given SQL query string.
A - true
B - false

Q 32 - Which method is used to get a persistent instance from the datastore?
A - Session.read()
B - Session.get()
C - Session.retrieve()
D - Session.fetch()
Q 33 - Which of the following is true about <generator> element?</generator>
A - The <generator> element within the id element is used to automatically generate the primary key values</generator>
B - Set the class attribute of the generator element is set to native to let hibernate pick up either identity, sequence or hilo algorithm to create primary key depending upon the capabilities of the underlying database.
C - Both of the above.
D - None of the above.
Q 34- Which of the following element is used to represent one-to-many relationship in hibernate?
A - <one-to-many></one-to-many>
B - <one-many></one-many>
C - <onetomany></onetomany>
D - None of the above.
Q 35- Is query level caching mandatory in hibernate?
A - true
B - false
Q 36 - When a Read-only concurrency strategy is to be used?
A - Use it for reference data only.

B - Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent

transactions.
C - Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern.
D - None of the above.
Q 37 - Which of the following is true about hibernate annotations?
A - Hibernate Annotations is the powerful way to provide the metadata for the Object and Relational Table mapping.
B - All the metadata is clubbed into the POJO java file along with the code this helps the user to understand the table structure and POJO simultaneously during the development.
C - Both of the above.
D - None of the above.
Q 38 - Which of the following is not a core component of Hibernate?
A - JDBC
B - SessionFactory
C - Session
D - Configuration
Q 39 - Is Session a thread-safe object?
A - true
B - false
Q 40 - Which method is used to remove a persistent instance from the datastore?
A - Session.delete()
B - Session.remove()
C - Session.del()
D - Session.rm()

Q 41- Which method is used to save or update the state of the given instance from the underlying database? A - Session.saveOrUpdate() B - Session.keep() C - Session.update() D - Session.load() Q 42 - Is first level caching mandatory in hibernate? A - true B - false Q 43 - Which of the following database is supported by Hibernate? A - DB2/NT B - PostgreSQL C - Sybase SQL Server D - All of the above Q 44 - Configuration object is used to create SessionFactory object in hibernate. A - true B - false Q 45 - name attribute of @Column annotation permits the name of the column to be explicitly specified. A - true B - false Q 46- Which of the following is true about Transaction object in hibernate?

A - A Transaction represents a unit of work with the database.
B - Transactions in Hibernate are handled by an underlying transaction manager.
C - This is an optional object and Hibernate applications may choose not to use this interface, instead managing transactions in their own application code.
D - All of the above
Q 47 - Session.beginTransaction method begins a unit of work and returns the associated Transaction object.
A - true
B - false
Q 48 - Which element of hbm.xml automatically generate the primary key values?
A - id
B - generator
C - primaryKey
D - None of the above.
Q 49- What is the difference between get() and load() methods of session object?
A - get() returns null if no data is present where as load throws ObjectNotFoundException exception in such case.
B - get() always hits the database whereas load() method doesn't hit the database.
C - get() returns actual object whereas load() returns proxy object.
D - All of the above.
Q 50 - The SessionFactory is heavyweight object.
A - false
B - true
Q 51 - Which of the following is true about HQL?

A - Hibernate Query Language (HQL) is an object-oriented query language. B - Instead of operating on tables and columns, HQL works with persistent objects and their properties. C - Both of the above. D - None of the above. Q 52 - Which of the following is true about SessionFactory object in hibernate? A - The SessionFactory is heavyweight object. B - SessionFactory object is created during application start up and kept for later use. C - You would need one SessionFactory object per database using a separate configuration file. D - All of the above. Q 53 - Which of the following situation represents many-to-many relationship? A - An employee can have multiple certificates and same certificate can be conferred to many employees. B - An employee can have multiple certificates. C - A certificate can be conferred to many employees. D - All of the above. Q 54- What is second level cache in hibernate? A - The second-level cache is the SessionFactory based cache and is mainly responsible for caching objects across sessions. B - The second-level cache is the Session based cache. C - Both of the above. D - None of the above. Q 55 - Which of the following is true about @Column annotation? A - The @Column annotation is used to specify the details of the column to which a field or property will

be mapped.
B - The @Column annotation is applied on a class.
C - Both of the above.
D - None of the above.
Q 56 - Which of the following object is used to create SessionFactory object in hibernate?
A - Configuration
B - Session
C - SessionFactory
D - Transaction
Q 57 - Session.createQuery creates a new instance of Query for the given HQL query string.
A - true
B - false
Q 58 - Which of the following is true about <id> element?</id>
A - The <id> element maps the unique ID attribute in class to the primary key of the database table.</id>
B - The name attribute of the id element refers to the property in the class.
C - The column attribute of the id element refers to the column in the database table.
D - All of the above.
Q 59 - Is second level caching mandatory in hibernate?
A - true
B - false
Q 60- Which of the following is a core component of Hibernate?

A - Transaction

B - SessionFactory
C - Session
D - All of the above
Q 61 - name attribute of @Column annotation permits the name of the column to be explicitly specified.
A - true
B - false
Q 62 - Which of the following is true about <pre> element?</pre>
A - The <pre>croperty> element is used to map a Java class property to a column in the database table.</pre>
B - The name attribute of the element refers to the property in the class.
C - The column attribute of the element refers to the column in the database table.
D - All of the above.
Q 63 - Which of the following is true about @Entity annotation?
A - @Entity annotation marks a class as an entity bean.
B - Class marked with @Entity annotation must have a no-argument constructor that is visible with at least protected scope.
C - Both of the above.
D - None of the above.
Q 64 - Which of the following is true about Hibernate?
A - Hibernate takes care of mapping Java classes to database tables using XML files and without writing any line of code.
B - Hibernate provides simple APIs for storing and retrieving Java objects directly to and from the database.
C - Hibernate abstracts away the unfamiliar SQL types and provide us to work around familiar Java Objects.

D - All of the above.
Q 65 - Session.beginTransaction method begins a unit of work and returns the associated Transaction object.
A - true
B - false
Q 66 - Which element of hbm.xml is used to map a Java class property to a column in the database table?
A - id
B - generator
C - property
D - class
Q 67 - When a Read-write concurrency strategy is to be used?
A - Use it for reference data only.
B - Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions.
C - Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern.
D - None of the above.
Q 68 - Which of the following is true about <class> element?</class>
which of the following is true about schass element.
A - The <class> elements are used to define specific mappings from a Java classes to the database tables.</class>
B - The Java class name is specified using the name attribute of the class element.
C - The database table name is specified using the table attribute of the class element.

D - All of the above.

Q 69- Which of the following tools/frameworks provides integration with Hibernate?
A - XDoclet Spring
B - J2EE
C - Maven
D - All of the above.
Q 70 - Which of the following element maps java.util.Collection property in hibernate?
A - <set></set>
B - <list></list>
C - <bag></bag>
D - <map></map>
Q 71 - Which of the following is true about INSERT CLAUSE in HQL?
A - HQL supports INSERT INTO clause only where records can be inserted from one object to another object.
B - HQL supports INSERT INTO clause without any restriction.
C - Both of the above.
D - None of the above.
Q 72- Which of the following is the root node of hbm.xml file?
A - hibernate-mapping
B - hibernate-config
C - class-mapping
D - class-config

1. The central artifact in spring javaConfig is the @Configuration-annotated class. ans: true
2. What are the modules of spring web flow?
a. Spring-faces
b. Spring-bundling
c. Spring-container
d.Spring-webflow
3.XML mapping file offers which of the following?????????????
4.In spring MVC each tag provides support to the set of attributes of its corresponding HTML tag counterpart making the tags familiar & intuitive to use. State true or False. true
5. Which of the following are mandatory rules to create validation for a normal employee table?
a. The "empNum" can't be empty
b."Name" can't be empty
c. The "empNum" can't be less than 1
d.All of the option
6. Which of the following allows as to add a new method or attributes to existing classes?
a. Introduction
b. Proxy
c. Weaving
d.Auto call
7. Given the following Spring configuration file, what is the correct answer:
<pre><bean class="com.spring.service.MyServiceImpl"></bean></pre>
<pre><pre><pre><pre>property name="repository" ref="jpaDao"/></pre></pre></pre></pre>

<bean class="com.spring.repository.JpaDao"/>

- a. The first declared bean MyServiceImpl is missing an id must be named myService
- b. The second declared bean JpaDao is missing an id must be named jpaDao
- c. Answers 1 and 2 are both rights
- d. Answers 1 and 2 are both wrong

8. Which of the following are the best practices for writing spring XML configuration?

- a. Rarely use classpath.
- b. Mentioning version numbers in schema reference
- c. Using consistent naming conventions
- d. Reuse bean definitions as much as possible

best practices:

- 1) Add a header comment to each configuration file
- 2) Use consistent naming conventions
- 3) No version numbers in schema references
- 4) Prefer setter injection over constructor injection
- 5) Prefer type over index for constructor argument matching
- 6) Use shortcut forms over expanded forms
- 7) Reuse bean definitions as much as possible
- 8) Always use ids as bean identifiers
- 9) Try to avoid autowiring
- 10) Always use classpath prefix
- 11) Always externalize properties
- 12) Use dependency-check at the development phase
- 13) Do not abuse/overuse dependency injection
- 9. Spring MVC provides better way to separate which of the following?

a. Presentation
b. Tools
c. Data Access
d. Business Logic
(business logic, UI login, /P logic)
10.We can use index and type attribute together. State true or Falsetrue
11.which of the following is Hibernate?
a. Lightweight
b. Open Source
c. ORM
d.All of the listed
12. Which of the following options about Auto Wiring in spring are correct?
$1. Auto-wiring \ in \ spring \ framework \ can \ be \ performed \ by \ configuring \ xml \ and \ auto-wiring \ with \ annotation \ @Autowired.$
2.Auto-wiring beans with xml configuration: In spring framework, you can wire automatically with auto-wiring feature.
3.To enable auto-wiring just define the "autowire" attribute in <bean> tag.</bean>
13. Which of the following parses in xml based on expression and its used extensively in conjunction with XLST?
a. Xpath parserAns
b. SAX parser
c. STAX Parser
d. JDOM Parser
14.Length attribute of @column annotation permits the size of the column used to map a value particularly for a string value. State true or Falsetrue

15. When we work with an object oriented system there's a mismatch between the object modal and the relational database. State true or False. ----true

16. Which of the following is true about JDBC?

- a. JDBC APIs enables java programs to execute SQL statements and interact with any SQL Complaint database
- b. JDBC stands for Java Database Connectivity
- c.it provides set of java API for accessing the relational databases from java program
- d.All the listed option -----Ans
- 17.- What is session scope?
- A This scopes a bean definition to an HTTP session.
- B This scopes the bean definition to Spring IoC container.
- C This scopes the bean definition to HTTP request.
- D This scopes the bean definition to HTTP Application/ Global session
- 18. Which of the listed statement are correct for spring Bean scope: Prototype?
- 1. Spring container creates new instance of bean for each and every request for that bean
- 2.Prototype scoped bean is served by creating new instance of bean for each and every bean dependency
- 3. After instantiating bean and submitting it to client spring container will maintain the record (not maintain)
- 4.Prototype scope is spring standard scope and can be used in standalone as well as web application of spring.
- 19.ServletWrappingController-Wraps an existing servlet which is managed completely by the spring environment. State true or False. -----true
- 20.Hibernate session is the main runtime interface between a java application and Hibernate. State true or False. ----true

- 23. Which of the following are correct in sql queries in hibernate.
- 1.sql queries may contain named and positional parameters, just like hibernate queries
- 2. You may express a query in sql using createSQLQuery()
- 3. Hibernate take care of the mapping from result sets to objects
- 4. You may call session.connection() and use JDBC Connection at any time
- 24. Which is the query language that embodies a very powerful and flexible mechanism to query, store, update and retrieve objects from a database?
- a. PLSQL
- b. RDBMS
- c. SQL
- d. HQL
- 25. What is spring MVC framework?
- a. spring MVC framework is used for Transaction management for web application
- b. spring MVC framework is Model-value-class architecture and used to bind model data
- c. spring MVC framework is used for AOP for web application
- d. spring web MVC framework provides model-view-controller architecture and ready components that can be used to develop flexible and loosely coupled web applications.
- 26. Which of the listed options are True for bean configuration inheritance?

1.In spring the inheritance is supported in bean to share common values properties or configurations 2.A child bean or inherited bean can inherit its parent bean configurations, properties & some attributes 3. the parent bean allows to override the inherited values.

- 27.XsltViewResolver-supports XsltView by resolving the view name of which of the following options?
- a. View name of the URL of the report file

b.URL of the XSLT---Ans

c. VelocityView and its subclasses
d.All of the option
28.[xml]
<id name="deptId" type="string"></id>
<column length="30" name="columnId"></column>
<generator></generator>
[xml]
The above is an example of creating which key?
a. Primary keyAns
b. Secondary key
c. Unique key
29. When you need to upload a large number of records into your database using Hibernate, you can use batch processing. State true or Falsetrue
30.Different types of run advice "before" and "after" the advised method is invoked. Which of the following is the correct option with respect to advice?
a. After returning
b. None
c. After throwing
d. aroundANs
31.Implementation of viewResolver accepts a configuration file written in XML with the same DTD as spring XML bean factories. State true or Falsetrue
32.Choose the odd one out respect to annotations from the following a.@requestmapping

- b. @controller
- c.@responsevalid
- d.@Pathvalid
- 33. For a fast Development, the dependency injection feature of spring Framework & support to various Frameworks makes the easy development of javaEE application. state true or False. -----true
- 34. Testing an application written with Spring is complex because environment-dependent code is moved into this framework. state true or False. --false (simple)
- 35. The application is designed around an object model. Sql code is generated at build time & the associations between obj are supported by the persistence mechanism, and queries are specified using an obj-oriented expression language. This is best suited for medium-sized applications

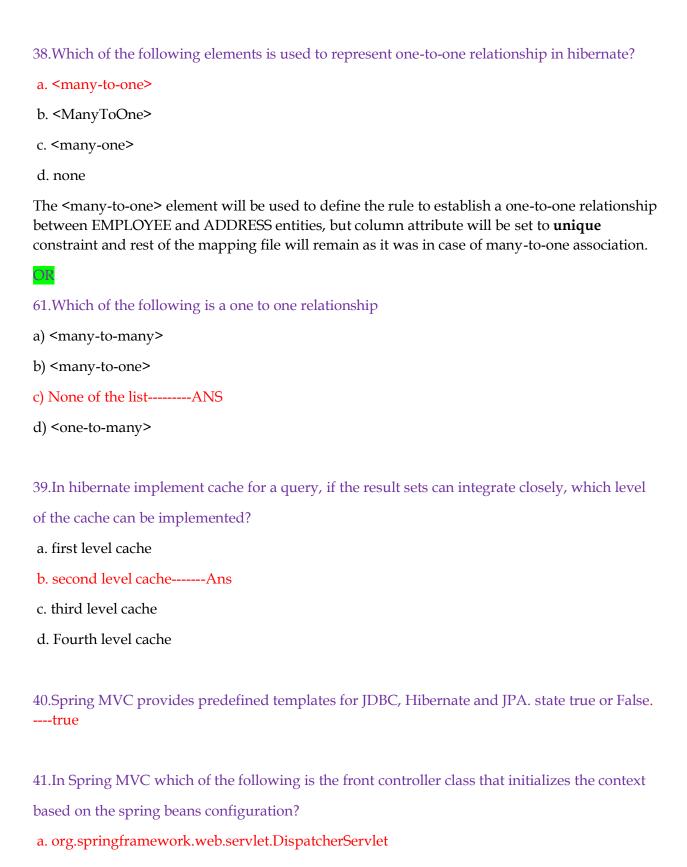
with some complex transactions. Used when mapping exceeds 25 different database products at a time.

which of the following is this called as?

- a. Object mapping
- b. Application object mapping
- c. Medium object mapping------Ans
- d. Expression object mapping

36. Which of the following is not the steps for creating web MVC?

- a. Provide exit controller in the web
- b. Create a controller class
- c. start server & deploy the project-----Ans
- d. Define the bean in the xml file
- 37. Maven is a project management & comprehension tool. state true or False. True



- b. org.springframework.web.context.DispatcherServlet
- c. org.springframework.web.servlet
- d. org.springframework.web.context.ApplicationContext
- 42. Which of the following is NOT the type of mapping?
- a. Instance mapping-----Ans
- b. Component mapping
- c. Association mapping
- d. Class mapping
- 43. Which of the following are modules of Web layer?
- A WebSocket, Servlet, Web, Portlet-----ANs
- B WebSocket, Servlet, Web-MVC, Web
- C HTML, JSP, WEB, Portlet
- D HTML, Servlet, WEB, Portlet
- 44. Which of the following statements are correct?
- a. Bean Factory and ApplicationContext are basic container only
- b. Bean Factory is basic container and ApplicationContext is advanced container---ANs
- c. Bean Factory and ApplicationContext are advanced container
- d. Bean Factory is advanced container and ApplicationContext is basic container
- 45.In spring bean configuration bean attribute called 'scope' defines what kind of object has to be created and returned. What returns a new bean instance each time when required?
- a. Prototype----Ans
- b. Session
- c. Singleton
- d. Global session

46.To validate the form fields you need to have a separate UserValidator class that implements the validator interface, override the validate () method perform all the validations, state true or False. -----true

47. The application context implements which of the following interface that is used to obtain localized

messages, with the actual implementation being pluggable?

- 1.messageSource -----Ans
- 2.RequestMapping
- 3.both
- 4.neither
- 48. Which of the following is an available aggregate function in HQL?
- a. Aggregate (property name)
- b. Count (property name or *)
- c. max (property name)
- d. avg (property name)
- 49. What statement is not correct in live environment? Select a unique answer.
- 1. Constructor and properties autowiring in the same bean are not compatible
- 2. A bean should have a default or a no-args constructor
- 3. The <constructor-arg> tag could take type, name and index to reduce ambiguity
- 4. None of the above
- 5. All of the above
- 50.- What is ContextClosedEvent event?
- A This event is published when the Servlet Context is either initialized or refreshed.
- B This event is published when the HTTP Request is received.

- C This event is published when the HTTP Response is returned.
- D This event is published when the ApplicationContext is closed using the close method on the

Configurable Application Context interface. -----ANs

- 51. Which of the following explains about addclass() function in the listed options?
- a. this function translates a java class name into file name------ANs
- b. this translated file name is then loaded as an input stream from the java class loader--ANs
- c. this addclass() function is important if you want efficient usage of classes in your code------------------
- 52.Spring MVC provides a JSP tag library (Spring form) for making it easier to bind form elements to model data. state true or False. **Ans:True**
- 53. Which of the following is correct assertion about spring?
- a. Spring enables developers to develop enterprise-class applications using POJOs.
- b. Spring is organized in a modular fashion.
- c. Testing an application written with spring is simple because environment-dependent code is moved into this framework.
- d.All of above.
- 54. Which of the following statement is INCORRECT by extending ViewResolver and Chaining ViewResolver?
- a. programmers can have custom view resolvers
- b. There are lot of view resolvers available in Spring framework
- c. Spring MVC view resolvers help the Dispatcher Servlet in identifying the views which has to be rendered in response for a request.
- d. none
- 55. What are the benefits of Spring Framework's transaction management?
- a. It Provides a consistent programming model across different transaction APIs such as JTA, JDBC, Hibernate, JPA, and JDO.

- B. It Supports declarative transaction management.
- c. It Provides a simpler API for programmatic transaction management than a number of complex transaction APIs such as JTA.

d.All the listed

56.Given the following configuration class, what are correct affirmations? Select one or more answers.

public class ApplicationConfig {

```
public class ApplicationConfig {
  private DataSource dataSource;
  @Autowired
  public ApplicationConfig(DataSource dataSource) {
    this.dataSource = dataSource;
  }
  @Bean(name="clientRepository")
  ClientRepository jpaClientRepository() {
    return new JpaClientRepository();
  }
}
1. @Configuration annotation is missing
```

- 2. Default or no-arg constructor is missing
- 3. @Bean name is ambiguous
- 4. @Bean scope is prototype
- 57. What is true about < list > collection configuration elements?
- A. This helps in wiring a list of values, allowing duplicates. -----<
- B.Ths. helps in wiring a list of values but without any duplicates. ----<set>
- C. This can be used to inject a collection of name-value pairs where name and value can be of

```
any type. ----<map>
```

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

both Strings. -----props>

Ans: This helps in wiring a list of values, allowing duplicates.

58. Which are the correct implementation classes of ApplicationContext?

A. FileSystemXmlApplicationContext,ClassPathXmlApplicationContext,

WebXmlApplicationContext-----

B. FileSystemApplicationContext, ClassPathApplicationContext, WebApplicationContext

C. Advanced Application Context, File Application Context

D. File System Application Context, Class Path Application Context

59.It is difficult to inject the dependency by constructor. state true or False. ---true

60. The Model-View-Controller (MVC) is an architectural pattern that does not separate an application into three main logical components: the model, the view and the controller.

state true or False. -----false

Q 1 - What ORM stands f	for?
A - Object Relation Map	
B - Object Relational Map	oping
C - Object Record Mappi	ng
D - None of the above.	
0.0 1411.1 611 611	
	ring is true about configuration component of Hibernate?
A - The Configuration ob application.	ject is the first Hibernate object you create in any Hibernate
B - The Configuration ob initialization.	ject is usually created only once during application
C - The Configuration ob the Hibernate.	ject represents a configuration or properties file required by
D - All of the above.	
Q 3 - Session.createQuestring.	ry creates a new instance of Query for the given HQL query
A - true	
B - false	
Q 4 - Which element of h primary key of the datab	bm.xml defines maps the unique ID attribute in class to the ase table?
A - id	
B - generator	
C - primaryKey	
D - None of the above.	
Q 5 - Which of the follow	ring element maps java.util.SortedMap property in hibernate?
A - <set></set>	
B - <list></list>	
C - <bag></bag>	
D - <map></map>	



Q 6 - What is lazy loading?

- A Lazy loading is a technique in which objects are loaded on demand basis.
- B Lazy loading is a technique in which objects are persisted on demand basis.
- C Both of the above.
- D None of the above.
- Q 7 What is first level cache in hibernate?
- A The first-level cache is the Session based cache.
- B The first-level cache is the SessionFactory based cache.
- C Both of the above.
- D None of the above.
- Q8-When a Transactional concurrency strategy is to be used?
- A Use it for reference data only.
- B Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions.
- C Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern.
- D None of the above.
- Q 9 Which of the following is a core component of Hibernate?
- A Transaction
- B SessionFactory
- C Session
- D All of the above
- Q 10 Which of the following is true about @GeneratedValue annotation?
- A @GeneratedValue annotation takes two parameters strategy and generator.
- B @GeneratedValue annotation provides the primary key generation strategy to be used.



C - Both of the above.

D - None of the above.

Q 11 - Which of the following is not an ORM framework?

- A Castor
- B Spring DAO
- C Hibernate
- D NoSOL

Q 12 - Which of the following is true about SessionFactory object in hibernate?

- A The SessionFactory is heavyweight object.
- B SessionFactory object is created during application start up and kept for later use.
- C You would need one SessionFactory object per database using a separate configuration file.
- D All of the above.
- Q 13 Which of the following is true about transient state of a persistent entity?
- A A new instance of a persistent class which is not associated with a Session.
- B A new instance of a persistent class which has no representation in the database.
- C A new instance of a persistent class which has no identifier value.
- D All of the above.

Q 14 - Which method is used to re-read the state of the given instance from the underlying database?

- A Session.refresh()
- B Session.get()
- C Session.reload()
- D Session.retrieve()
- Q 15 Which of the following element maps java.util.List property in hibernate?



A - <set></set>
B - <list></list>
C - <bag></bag>
D - <map></map>
Q 16 - Child objects are not loaded when parent is loaded/populated from database. What this technique is called?
A - Eager Loading
B - Lazy Loading
C - Request based Loading
D - None of the above.
Q 17 - What HQL stands for?
A - Hibernate Query Language
B - High Query Language
C - Hybrid Query Language
D - None of the above.
Q 18 - Which of the following database is not supported by Hibernate?
A - Oracle
B - Microsoft SQL Server Database
C - FoundationDB
D - Informix Dynamic Server
O1.0. A Session is used to get a physical connection with a detabase
Q1 9 - A Session is used to get a physical connection with a database.
A - true
B - false
Q 20 - Which of the following is true about HQL?



A - Hibernate supports named parameters in its HQL queries.

B - HQL supports a range of aggregate methods, similar to SQL.

C - Both of the above.
D - None of the above.
Q 21 - Which of the following is true about Hibernate?
A - Hibernate is an Object-Relational Mapping(ORM) solution for JAVA.
B - Hibernate is an Object-Relational Mapping(ORM) solution for .NET
C - Both of the above.
D - None of the above.
There of the above.
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C - Both of the above.
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Q 24 - Which of the following element maps java.util.Map property in hibernate?
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- B The guery-level cache is the Session based cache.
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C - Session

D - Configuration

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B - PostgreSQL
C - Sybase SQL Server
D - All of the above
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A - true
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Q 45 - name attribute of @Column annotation permits the name of the column to be explicitly specified.

- A true
- B false
- Q 46- Which of the following is true about Transaction object in hibernate?
- A A Transaction represents a unit of work with the database.
- B Transactions in Hibernate are handled by an underlying transaction manager.
- C This is an optional object and Hibernate applications may choose not to use this interface, instead managing transactions in their own application code.
- D All of the above
- Q 47 Session.beginTransaction method begins a unit of work and returns the associated Transaction object.
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- Q 48 Which element of hbm.xml automatically generate the primary key values?
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- A get() returns null if no data is present where as load throws ObjectNotFoundException exception in such case.
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- D All of the above.
- Q 50 The SessionFactory is heavyweight object.



- A false
- B true
- Q 51 Which of the following is true about HQL?
- A Hibernate Query Language (HQL) is an object-oriented query language.
- B Instead of operating on tables and columns, HQL works with persistent objects and their properties.
- C Both of the above.
- D None of the above.
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Q 56 - Which of the following object is used to create SessionFactory object in hibernate?
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B - Session
C - SessionFactory
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Q 57 - Session.createQuery creates a new instance of Query for the given HQL query string.
A - true
B - false

- Q 58 Which of the following is true about <id> element?
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- C Hibernate abstracts away the unfamiliar SQL types and provide us to work around familiar Java Objects.
- D All of the above.
- ${\tt Q}$ 65 Session.beginTransaction method begins a unit of work and returns the associated Transaction object.



A - true B - false Q 66 - Which element of hbm.xml is used to map a Java class property to a column in the database table? A - id B - generator C - property D - class Q 67 - When a Read-write concurrency strategy is to be used? A - Use it for reference data only. B - Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions. C - Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern. D - None of the above. Q 68 - Which of the following is true about <class> element? A - The <class> elements are used to define specific mappings from a Java classes to the database tables. B - The Java class name is specified using the name attribute of the class element. C - The database table name is specified using the table attribute of the class element. D - All of the above. Q 69- Which of the following tools/frameworks provides integration with Hibernate? A - XDoclet Spring B-J2EE C - Maven



D - All of the above.

Q 70 - Which of the following element maps java.util.Collection property in hibernate?
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C - <bag></bag>
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C - Both of the above.
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Q 72- Which of the following is the root node of hbm.xml file?
A - hibernate-mapping
B - hibernate-config
C - class-mapping
D - class-config

Q 1 - What ORM stands for?	
A - Object Relation Map	
B - Object Relational Mapping	
C - Object Record Mapping	
D - None of the above.	
Q 2 - Which of the following is true about configuration component of Hibernate?	
A - The Configuration object is the first Hibernate object you create in any Hibernate application.	
B - The Configuration object is usually created only once during application initialization	n.
C - The Configuration object represents a configuration or properties file required by th Hibernate.	е
D - All of the above.	
Q 3 - Session.createQuery creates a new instance of Query for the given HQL query string.	
A - true	
B - false	
Q 4 - Which element of hbm.xml defines maps the unique ID attribute in class to the primary key of the database table?	
A - id	
B - generator	
C - primaryKey	
D - None of the above.	
Q 5 - Which of the following element maps java.util.SortedMap property in hibernate?	
A - <set></set>	
B - <list></list>	



C - <bag></bag>
D - <map></map>
Q 6 - What is lazy loading?
A - Lazy loading is a technique in which objects are loaded on demand basis.
B - Lazy loading is a technique in which objects are persisted on demand basis.
C - Both of the above.
D - None of the above.
Q 7 - What is first level cache in hibernate?
A - The first-level cache is the Session based cache.
B - The first-level cache is the SessionFactory based cache.
C - Both of the above.
D - None of the above.
Q 8 - When a Transactional concurrency strategy is to be used?
A - Use it for reference data only.
B - Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions.
C - Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern.
D - None of the above.
Q 9 - Which of the following is a core component of Hibernate?
A - Transaction



B - SessionFactory

D - All of the above

C - Session

Q 10 - Which of the following is true about @GeneratedValue annotation?

- A @GeneratedValue annotation takes two parameters strategy and generator.
- B @GeneratedValue annotation provides the primary key generation strategy to be used.
- C Both of the above.
- D None of the above.
- Q 11 Which of the following is not an ORM framework?
- A Castor
- B Spring DAO
- C Hibernate
- D NoSQL
- Q 12 Which of the following is true about SessionFactory object in hibernate?
- A The SessionFactory is heavyweight object.
- B SessionFactory object is created during application start up and kept for later use.
- C You would need one SessionFactory object per database using a separate configuration file.
- D All of the above.
- Q 13 Which of the following is true about transient state of a persistent entity?
- A A new instance of a persistent class which is not associated with a Session.
- B A new instance of a persistent class which has no representation in the database.
- C A new instance of a persistent class which has no identifier value.
- D All of the above.
- Q 14 Which method is used to re-read the state of the given instance from the underlying database?
- A Session.refresh()



B - Session.get()
C - Session.reload()
D - Session.retrieve()
Q 15 - Which of the following element maps java.util.List property in hibernate?
A - <set></set>
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Q 16 - Child objects are not loaded when parent is loaded/populated from database What this technique is called?
A - Eager Loading
B - Lazy Loading
C - Request based Loading
D - None of the above.
Q 17 - What HQL stands for?
A - Hibernate Query Language
B - High Query Language
C - Hybrid Query Language
D - None of the above.
Q 18 - Which of the following database is not supported by Hibernate?
A - Oracle
B - Microsoft SQL Server Database
C - FoundationDB



D - Informix Dynamic Server

Q1 9 - A Session is used to get a physical connection with a database.
A - true
B - false
Q 20 - Which of the following is true about HQL?
A - Hibernate supports named parameters in its HQL queries.
B - HQL supports a range of aggregate methods, similar to SQL.
C - Both of the above.
D - None of the above.
Q 21 - Which of the following is true about Hibernate?
A - Hibernate is an Object-Relational Mapping(ORM) solution for JAVA.
B - Hibernate is an Object-Relational Mapping(ORM) solution for .NET
C - Both of the above.
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object is calledWeaving
2) < list> tag is used to wire a list of values, allowing duplicates.
3) BeanFactory , ApplicationContext classes acts as IoC containers in Spring.
4) Can you inject null and empty string values in Spring?yes
5) AOP stands for Aspect Oriented Programming.
6) SpEL is NOT part of core containerfalse
7)Following class can be extended to create custom event in spring.
A) SpringEvent
B)Event
C)ApplicationEvent
D)None of above
8)Which is the way to provide configuration metadata to spring?
A) XML Based configuration file.
B)Annotation based configuration.
C)Java based configuration.
d)all of listed
9)Which of the following are modules of Web layer?
A)Servlet, Web, Portlet, WebSocket
B)WebSocket, Servlet, Web-MVC, Web
C)HTML, JSP, WEB, Portlet

D)HTML, Servlet, WEB, Portlet

1) In Spring AOP, the process of linking aspect with other application types or objects to create an advice

10) How many instances can be created for a global sessionone
11) What display the data with help of model? View
12) Which of the following is correct assertion about spring?
I.Spring enables developers to develop enterprise-class applications using POJOs.
II.Spring is organized in a modular fashion.
III.Testing an application written with Spring is simple
IV. All of the list
13) How after advice works?
A) Run advice after a method execution regardless of its outcome
B)Run advice after a class loads.
C)Run advice after http response is returned.
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14) What is true about st> collection configuration elements?
A.This helps in wiring a list of values, allowing duplicates
B.This helps in wiring a list of values but without any duplicates <set></set>
C.This can be used to inject a collection of name-value pairs where name and value can be of
any type <map></map>
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17)What is ContextStartedEvent event?
A) This event is published when the Servlet Context is either initialized or refreshed.
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C)Both of the above.
D)None of the above.

20) Which of the following not available in HQL?
a)Select
b)Where
c)Sub
d)Having
21) Which of the following is an available aggregate function in HQL?
a.Aggregate(property name)
b.Count(property name or *)
c.max(property name)
d.avg(property name)
22) Which of the following database is not supported by Hibernate?
A) DB2/NT
B)MySQL
C)FoundationDB
D)PostgreSQL
23) Which of the following is true about Hibernate?
A) Hibernate is an Object-Relational Mapping(ORM) solution for JAVA
B)Hibernate is an Object-Relational Mapping(ORM) solution for .NET
C)Both of the above.
D)None of the above.
24)ORM stands for Object-Relational Mapping (ORM) is a programming technique for converting data between relational databases True

25) What is the difference between save() and persist() methods of session object? A) There is no difference. B)save saves the object and returns status whereas persist stores status in different variable. C)save saves the object and returns the id of the instance whereas persist do not return anything after saving the instance. D)None of the above. 26) What is required to write a basic spring program? jdk,ide,maven,all the above 27) JDBC, ORM, OXM, JMS, Transactions are the modules of Data Access/ Integration layer.-----True 28) Spring framework is a light weight framework.-----TRUE 29) Singleton is the default scope of any spring bean. ----TRUE 30) Analyze the below code snippet: <bean class="com.spring.service.MyServiceImpl"> cproperty name="repository" ref="jpaDao"/> </bean> <bean class="com.spring.repository.JpaDao"/> Which of the following statements is valid? I. The "id" attribute must be declared for the bean "MyServiceImpl" because it is mandatory attribute. II. In the second bean of type "com.spring.repository.JpaDao" the "id" attribute must be specified with name "jpaDao". Select One a. Both I and II are correct b. II only c. I only d. Both I and II are incorrect

31)Which of the following parses in XML based on expression and its used extensively in conjugation with xstl?
a)JDOM parser
b)SAX parser
c) STAX parser
d) Xpath parser
22) What is true about Book Footons, Application Contant?
32) What is true about BeanFactory, ApplicationContext?
BeanFactory is basic and ApplicationContext is advanced
33)Which are the correct implementation classes of ApplicationContext?
$A. File System Xml Application Context, Class Path Xml Application Context, \\Web Xml Application Context$
B. File System Application Context, Class Path Application Context, Web Application Context, Class Path Application Context, Web Application Context, Class Path Application Context, Class Path Application Context, Web Application Context, Class Path Application Context, Web Application Context, Class Path Application Context, Web Application
C.AdvancedApplicationContext, FileApplicationContext
D.FileSystemApplicationContext, ClassPathApplicationContext
34) org.springframework.web.servlet.DispatcherServlet is the configuration in xml file for dispatcherServlet.
35) The central artifact in spring javaConfig is the @Configuration annotated class? True
36) Maven is a project management and comprehension tool True
37) What is session scope?
A) This scopes a bean definition to an HTTP session.
B)This scopes the bean definition to Spring IoC container.
C)This scopes the bean definition to HTTP request.
D)This scopes the bean definition to HTTP Application/ Global session

a. Constuctor and properties autowiring in the same bean are not compatible
b. A bean should have a default or a no-args constructor
c. The <constructor-arg> tag could take type, name and index to reduce ambiguity</constructor-arg>
d. All of the above
39) which is not core component of hibernate?
a.transaction
b.criteria
c.provider
d.query
40) ServletWrappingController-Wraps an existing servlet which is managed completely by the spring environment True
42)Validations for normal employee class
I.Name cant be empty
I.Id cant be empty
III.Id cant be less than 1
iv.all the above
44)Different types of run advice "before" and "after" the advised method is invoked. Which of the following is the correct option with respect to advice?
a.After returning
b.None
c.After throwing
d.around

38) What of the following is not correct in live environment?

45)HQL- easily stores, update and retrieve from the database True
46) Which of the following is Hibernate?
a.Lightweight
b.Open Source
c.ORM
d.All of the listed
48) When we work with an object oriented system, there is mismatch between the object model and the relational database State True or False
a) TRUE
b) FALSE
49) Spring mvc is a model-view-controller True
50) Forms fields are validated using user defined validations along by involvementing validation interfere
50) Form fields are validated using user defined validations class by implementing validation interface
State True or FalseTrue
51) Spring does not separate three modules like presentation layer, business layer and data access layer
State True or FalseFalse
52) Pick odd one out in the following annotations (invalid annotations)
I.@PathValid II.@responsevalid
III.@Controller IV.@requestMapping
53) Length returns number of rows in a column for only string type True
54) Which level cache implements a cache for query result sets
a.Third level cache
b.Second level cache
c.First level cache

d. Fourth level cache
57) What is the function of clean maven lifecycle command?
cleans artifacts in the earlier build
60) Which of the following is a one to one relationship
a) <many-to-many></many-to-many>
b) <many-to-one></many-to-one>
c) None of the list
d) <one-to-many></one-to-many>
61) Which of the following is a many to one relationship
a) many-to-one
b) <many-to-one></many-to-one>
c) None of the list
d) <manyone></manyone>
62) The same XSD of BeanFactory can be used for View resolver interface?
State True or False
a) TRUE
b) FALSE
63) Testing an application written with Spring is complex because environment-dependent
code is moved into this frameworkfalse
64)What is ContextStoppedEvent event?
2.,
A) This event is published when the Servlet Context is either initialized or refreshed.

$B) This \ event \ is \ published \ when \ the \ Application Context \ is \ stopped \ using \ the \ stop() \ method \ on \ the \ Configurable Application Context \ interface.$
C)This event is published when the HTTP Request is received.
D)This event is published when the HTTP Response is returned.
65)XsltViewResolver-supports XsltView by resolving the view name of which of the following options
a) all of the listed options
b)VelocityView and its subclasses
c)URL of xslt
d)view name of the URL of the report file.
66) Spring MVC provides predefined templates for JDBC, Hibernate and JPATrue
67) ApplicationContext implements which of the following interface that is used to obtain localized messages, with the actual implementation being pluggable
I. MessageSource
II. RequestMapping
a. only I
b.only II
c. Neither I or II
d. Both I and II
68) Which of the following are the best practices for writing spring XML Configurations?
a.Using consistent naming conventions
b. Rarely use classpath
c.Mentioning version numbers in schema references
d.reuse bean definitions as much as possible

69) To validate the form fields you need to have a separate UserValidator class that implements the

validator interface, Override the validate() method perform all the validations.-----True

- 70) Which of the listed options are TRUE for Bean configuration inheritance?
- I. In spring, Inheritance is supported in bean configuration to share common values, properties or configurations
- II. A child bean or inherited bean can inherit its parent bean configurations, properties and some attributes
- III. The parent bean allow to override the inherited values

a.I, II, and III

b.I and II

c.II and III

d.I and III

- 71) which of the following options about Auto wiring in spring are correct?
- I. The Auto wiring in spring framework can be performed by configuring in xml and spring Auto-Wiring with Annotation @Autowired
- II. Auto-wiring beans with xml configuration: In Spring framework, you can wire beans automatically with auto wiring feature
- III. To enable auto-wiring just define the "autowire" attribute in <bean> tag.

a.I, II, and III

b.I and III

c.I and II

d.II and III

- 72) XML Mapping file offers which of the following?
- a.Readable Metadata
- b.Surrogate key generation strategy
- c.Collecion metadata

d.all the listed options

- e.Column/Table Mapping
- 73) Which of the following explains about addClass function in the listed options(doubt)

- I. This function translates a Java class name into file name
- II. This translated file name is then loaded as an input stream from the java class loader
- III. This addClass function is important if you want efficient usage of classes in your code

a. I, II, and III

- b. I and III
- c. I and II
- d. II and III
- 74) The application is designed around an object model. The SQL code is generated at build time and the associations between objects are supported by the persistent mechanism, and queries are specified using an object oriented expression language. This best suited for medium-sized applications with some complex transactions. Used when the mappping exceeds 25 different databse products at a time.

Which of the following is this called as?

- a. Application Object Mapping
- b. Expression object mapping
- c. Medium Object Mapping
- d. Object Mapping
- 75) Which of the following is not the best practice?

a. Provide exit controller in the web

- b.Create a controller class
- c.start server 7 deploy the project
- d.Define the bean in the xml file
- 76) What are the modules of spring web flow?
- a.Spring-faces
- b.Spring-bundling
- c.Spring-container

d.Spring-webflow

77) Bean post processor is a concrete classfalse
78) The Spring MVC pattern does not separate the different aspects of the application into input logic, business logic, and UI logic false
79) Constructors in a class can be?
a. may be defined as private
b. Contains same name as class
c. used to create objects
d. all the above
80) Given the Spring configuration file, which are the correct statements?
<pre><bean <="" class="com.spring.service.BankServiceImpl" pre=""></bean></pre>
p:bankName="NationalBank">
 a) The p namespace has to be declared b) Bean id is bankServiceImpl c) The BankServiceImpl references a NationalBank bean d) NationalBank is a scalar value
81) Which is correct?
a. Hibernate is an object oriented query language
b. It is database independent
c. it supports pagination
d. HQL statements will be converted to SQL or other language the database supports
e. all the above
82) Using the Spring AOP framework, what are the joinpoint methods of the following pointcut expressions?
execution(public * *())

c) The current method must start a new transaction and run within its own transaction. If there is an

85) Which scope is a single bean definition to have any number of object instances? -----prototype

86) Which annotation is used in setter? which type of annotation applies to bean property setter methods

own transaction.

d) None of the above

84) Types of autoproxing?

select one

a)@Requires

b)@Resource

c)@Required

d)@Requiring

existing transaction in progress, it is suspended.

a. BeanNameAutoProxyCreatorb. DefaultAdvisorAutoProxyCreator

87) Model is used to encapsulate the response data-----True

c. Metadata autoproxyingd. WebApplication context

88) What is a view resolver?
 a) class b) interface c) object d) argument
89) Cache enables the database to hit as much as possible for better performance in critical applications True
90) View Resolver provides a mapping between view names and actual views True
 91) Which one interpret user input and transform it into a model that is represented to the user by the view. a) controller b) dispatcher servlet c) model d) browser
92) 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
}
a) The add() method executes code in a new transaction
b) The add() method uses the transaction of the transferMoney() method
c) When calling the add() method, an exception is thrown

d) Other behavior
93) Application contexts can publish events to beans that are registered as listeners true
94) Which is not used as java annotation
a) @componentb) @beanc) @configurationd) none
95) Hibernate supports query cache true
96) What are the mapping associations used in hibernate?
 a. One-to-One Association b. Many-to-One Association c. One-to-Many Association d. Many-to-Many Association
97) What are the different fetching strategies in hibernate?
 a) Join Fetching b) Batch Fetching c) Select Fetching d) Sub-select Fetching
98) Hibernate helps in mapping of java objects with database tables true
99) Which of the following are mandatory rules to create validation for a normal employee table?
a.The "empNum" cant be empty
b."Name" cant be empty
c.The "empNum" cant be less than 1
d.All of the option
100) Which of the following allows as to add a new method or attributes to existing classes?

a.Introduction
b.Proxy
c.Weaving
d.Auto call
111. Length attribute of @column annotation permits the size of the column used to map a value particularly for a string value true
112. Which of the following is true regarding prototype
 a. scope is a single bean definition to have any number of object instances b. it is the default scope in standard web applications c. the instances will be created for each bean dependency
113.which mapping is given in hibernate in common?
 a) object b) relational c) class d) column
114.In which level, sql query is integrated in HQL?
 a) class level b) low level c) high level d) object level
115.In which way, the properties of one bean is used by number of beans?
a) inheritanceb) dependency injectionc) through child bean
116.In spring MVC each tag provides support to the set of attributes of its corresponding HTML tag counterpart making the tags familiar & intuitive to use True
117.We can use index and type attribute together true
118. Which of the following is true about JDBC?
a.JDBC APIs enables java programs to execute SQL statements and interact with any SQL Complaint database

b.JDBC stands for Java Database Connectivity

c.it provides set of java API for accessing the relational databases from java program

d.All the listed option

119. Which of the listed statement are correct for spring Bean

- a) Spring container creates new instance of bean for each and every request for that bean
- b) Prototype scoped bean is served by creating new instance of bean for each and every bean dependency
- c) After instantiating bean and submitting it to client spring container will maintain the record
- d) Prototype scope is spring standard scope and can be used in standalone as well as web application of spring.

120. Which is the query	language that	embodies a	very powerful	l and flexible	mechanism to	query, store,
update and retrive						

objects from a database?

a.PLSQL

b.RDBMS

c.SQL

d.HQL

121. What is spring MVC framework?

a.spring MVC framework is used for Transaction management for web application

b.spring MVC framework is Model-value-class architecture and used to bind model data

c.spring MVC framework is used for AOP for web application

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

122. When you need to upload a large number of records into your database using Hibernate, you can use batch processing.-----true

123.Implementation of viewResolver accets a configuration file written in XML with the same DTD as spring XML bean factories.-----**true**

124. For a fast Development, the dependency injection feature of spring Framework & support to various Frameworks makes the easy development of javaEE application.-----true

125.In hibernate implement cache for a query ,if the result sets can integrate closely, which level of the cache can be implemented?

a.first level cache

b.second level cache

c.third level cache

d.Fourth level cache

126.In Spring MVC which of the following is the front controller class that initializes the context based on the spring beans configuration?

a.org.springframework.web.servlet.DispatcherServlet

b. org. spring framework. we b. context. Dispatcher Servlet

c.org.springframework.web.servlet

d.org.springframework.web.context.ApplicationContext

127. Which of the following statements are correct?

a.Bean Factory and ApplicationContext are basic container only

b.Bean Factory is basic container and ApplicationContext is advanced container

c.Bean Factory and ApplicationContext are advanced container

d.Bean Factory is advanced container and ApplicationContext is basic container

128.In spring bean configuration bean attribute called 'scope' defines what kind of object has to be created and returned. What returns a new bean instance each time when required?

a.Prototype

b.Session

c.Singleton

d.Global session

129. Which of the following is true about Hibernate? A) Hibernate takes care of mapping Java classes to database tables using XML files and without writing any line of code. B)Hibernate provides simple APIs for storing and retrieving Java objects directly to and from the database. C)Hibernate abstracts away the unfamiliar SQL types and provide us to work around familiar Java Objects. D)All of the above. 130. Spring MVC provides a JSP tag library (Spring form) for making it easier to bind form elements to model data.----True 131. Which of the following statement is INCORRECT by extending ViewResolver and ChainingViewResolver? a. programmers can have custom view resolvers b. There are lot of view resolvers available in Spring framework c. Spring MVC view resolvers help the Dispatcher Servlet in identifying the views which has to be rendered in response for a request. d.none 132. Spring MVC provides better way to separate which of the following? a.Presentation b.Tools c.Data Access **d.Bussiness Logic(not sure)** 133.It is difficult to inject the dependency by constructor. -----true 134. The Model-View-Controller (MVC) is an architectural pattern that does not separate an application into

three main logical components: the model, the view and the controller.-----false

135. How many layers are there in Hibernate architecture
a)3
b)4
c)5
d)2
136. Which tool helps to generate the mapping document Though many Hibernate users choose to write the XML by hand
select one
a)oldgen
b)younggen
c)Middlegen
d) Mediumgen
137. Java based configuration option disables you to write most of your Spring configuration without XML but with the help of few Java-based annotationsFalse
138. What types of views supported by spring MVC for different presentation technologies
select one or more
a)JSP
b)HTML
c)velocity templates
d) all
139. Spring is a heavy weight framework False
140. A very powerful and high performance qurerying language used to Query,retrive,store data in DB is select one

a)PLSQL
b)HQL
c)SQL

d)RDBMS

- 141. Which best describes the propagation attribute REQUIRED?
 - a. Create a new transaction, suspend the current transaction if one exists.
 - b. Execute non-transactionally, suspend the current transaction if one exists.
 - c. Supports a current transaction, throw an exception if none exists
 - d. Support a current transaction, create a new one if none exists.
- 142. Which best describes the propagation attribute NON_SUPPORTED?
 - a. Create a new transaction, suspend the current transaction if one exists.
 - b. Execute non-transactionally, suspend the current transaction if one exists.
 - c. Supports a current transaction, throw an exception if none exists.
 - d. Support a current transaction, create a new one if none exists.
- 143. Which best describes the propagation attribute MANDATORY?
 - a. Create a new transaction, suspend the current transaction if one exists.
 - b. Execute non-transactionally, suspend the current transaction if one exists.
 - c. Supports a current transaction, throw an exception if none exists.
 - d. Support a current transaction, create a new one if none exists.
- 144. Which best describes the propagation attribute REQUIRES_NEW?
 - a. Create a new transaction, suspend the current transaction if one exists.
 - b. Execute non-transactionally, suspend the current transaction if one exists.
 - c. Supports a current transaction, throw an exception if none exists.
 - d. Support a current transaction, create a new one if none exists.
- 145. Can you instantiate a static inner class in Spring?
 - a. No, static classes are not supported
 - b. Yes, they are instantiated by default with the class.
- 146. An application server is required for spring's transaction mechanism to run.

a.	TRUE
b.	FALSE

- 147. What are the types of injection supported by Spring?
 - a. Constructor Injection only.
 - b. Constructor Injection and Setter Injection
 - c. Constructor Injection, Setter Injection and Interface Injection
 - d. Constructor Injection, Setter Injection before 2.0 and Interface Injection with 2.0 and above version
- 148. @Inject annotation supports "required" attribute.
 - a) TRUE
 - b) FALSE
- 149. Which event is published when context is initialized?
 - a) ContextStartedEvent.
 - b) ContextRefreshedEvent
 - c) ContextInitializedEvent
 - d) ContextReadyEvent
- 150. Which event is published when context is refreshed?
 - a. ContextStartedEvent
 - b. ContextInitializedEvent
 - c. ContextReadyEvent
 - d. ContextRefreshedEvent
- 151. Spring Web MVC (and in Spring in general) is the "Open for extension, closed for modification" principle.

The reason that this principle is being mentioned here is because a number of methods in the core classes in Spring Web MVC are marked final.

- a. **true**
- b. false

152. Which of the among is not a special bean in WebApplicationContext?			
 a. Locale resolver b. Theme resolver c. multipart file d. resolver e. Handler exception resolver f. Handler mappings g. None of the above 			
153. How the Spring DispatcherServlet supports for returning the last-modification-date, as specified by the Servlet API ?			
 a. By implementing the LastModified interface b. By implementing the LastSessionModified interface c. By implementing the LastDateModified interface d. By implementing the LastModifiedDate interface 			
154. WebApplicationContext has more scopes like request, session, globalSession to the standard Application context (which only provides Singleton and Prototype scopes) true			
155. All of Spring's various Controller inherit from AbstractControllor? true			
156. You can write your own controller by using handleRequestInternal(HttpServletRequest, HttpServletResponse) method from abstract controller and a ModelAndView objecttrue			
157. Which of the following controller inspects the URL and retrieves the filename of the file request and uses that as a viewname ?For example, the filename of http://www.springframework.org/welcome.html request is welcome.			
 a. UrlFilenameViewController b. MultiActionMultiActionController c. CommandController d. AbstractController 			
158. The available prefixes for ClassPathXmlApplicationContext look up are:-			
classpath:			

file:	
http:	
https:	
159. Spring ev	vent mechanism is based on the standard:-
a.	Observer Design Pattern
	Factory Design Pattern
c.	Mediator Design Pattern
160. What kir	nd of servers can support Spring Transaction?
a.	Only Application servers
	Only Application servers which support J2EE specification
c.	Spring's transactional services are supported on web servers also
	g Framework's declarative transaction implementation, is it sufficient to annotate to classes ansactional annotation? NO
162. What is	dependency injection?
a)A de	sign pattern where dependent objects are defined in an xml for easy maintainability.
	s is a design pattern whereby dependent objects are passed into an object from the e at the time application is initialized.
c)A ur	sique feature of spring which allows object to be injected at the time of compilation.
163. Given fo	llowing controller :-
@RequestMa	pping("/basket")
@Controller	
public class S	hopping {
•	Mapping("/{id}")
e Kequesti	wapping(/ (id))

```
public String doCheckOut(@PathVariable Date time) {
 return "home";
 }
}
Is declaration of Shopping#doCheckOut method correct?-----TRUE
164. If you were using Join Points, Pointcuts & Advice what would you be using?
       a)Bean Contatiner
       b)JPA
       c)EJB
       d)AOP
165. Spring 3.0 does not support for multipart form.-----False
166. Which of the following view technologies are supported by Spring?
          a. JSTL/JSP
          b. Ms Excel
          c. Adobe PDF
          d. All of the above.
167. Spring 3.0 provides the PropertyEditor for performing thread-safe type conversion. This allows any
Type to be converted to any other Type.-----FALSE
168. For a given web.xml configuration:
<web-app version="2.5">
<servlet>
<servlet-name>dispatcher</servlet-name>
<servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
<load-on-startup>1</load-on-startup>
</servlet>
<servlet-mapping>
<servlet-name>dispatcher</servlet-name>
```

```
<url-pattern>/*</url-pattern>
</servlet-mapping>
</web-app>
Which path should has file that contains XML configuration metadata for ApplicationContext of given
DispatcherServlet?
       /WEB-INF/application-context.xml
       /dispatcher-servlet.xml
       /WEB-INF/dispatcher-servlet.xml
169. Suppose I have an aspect:
@Before("execution(* method*()")
and the following class:
public class MyClass() {
  public void method1() {
    method2();
  }
  public void method2() {
  }
}
If I call, myClass.method1(), from another class, which methods does the advice run against?
          a. method1
          b. method2
          c. neither
          d. both
170. The following methods:-
       queryForInt(args)
       queryForList(args)
       getJdbcOperations()
       getNamedParameterJdbsOperations()
are all present in which of the following class?
```

b. c.	SimpleJdbcTemplate JdbcTemplate NamedParameterJdbcTemplate None of the above		
171. The dyna	mic languages currently supported by Spring are		
	Groovy		
	JRuby BeanShell		
	All the above		
172. JMS stands for-			
	Java Message Service		
	Java Mechanism Service Java Message System		
	Java MultiThreaded System		
173. Which of the following tag is used to enable Aspect using XML configuration?			
a) <ao< b="">p</ao<>	:aspectj-autoproxy/>		
b) <aop< td=""><td>e:aspectj-component/></td></aop<>	e:aspectj-component/>		
c) <aop:aspectj></aop:aspectj>			
d) <aor< td=""><td>e:aspectj-autoproxy-component-scan/></td></aor<>	e:aspectj-autoproxy-component-scan/>		
174. Programatic transaction management is done using:-			
a) Tra r	sactionTemplate		

175. Which of the following are valid return types, or values, from a controller implementation?

a)null

b) Platform Transaction Manager

c)@TransactionManager

d)IntegratedTranaction

	d)All of the above
176. W	hich of the following are JSR - 250 annotation/s?
b) c) d) e)	@PreConstruct @PreDestroy @Resource @PostConstruct @Autowired @Controller
177. In	Spring's form tag library which of the following tags are valid?
b) c)	input and inputs checkbox and checkboxes radiobutton and radiobuttons redirect
Solutio	n
checkbo	ox and checkboxes are valid spring tags.
radiobu	tton and radiobuttons are valid spring tags.
input is	valid spring tag but inputs is not a valid spring tag.
•	you want to provide the MessageSource functionality to application, providing access to messages style in your application. Which one should be used?
b)	ApplicationContext Property File Servlet Context
179. Ca	in dependency injection be lazy initialized?

b)A String view name

c)void

a) YES b) NO

a 1	•
S O	ution
\mathbf{v}	uuon

U	Ising	lazy-init=	="true"	in spring	configura	tion file	on the bean.	it can be	instantiated	only	when	needed	1
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180. What is second level cache in hibernate?

A) The second-level cache is the SessionFactory based cache and is mainly responsible for caching objects across sessions.

- B)The second-level cache is the Session based cache.
- C)Both of the above.
- D)None of the above.
- 181. What is the type of file used for spring configuration?

Ans:

- XML based configuration file.
- Annotation-based configuration
- Java-based configuration
- 182. What is the security annotation used in spring? (@autowire, @transicible ,.....)

 Ans: @PreAuthorize and @PostAuthorize
- 183. What are the types of editors used in spring framework?

Ans:

- PropertyEditor
- URLEditor
- ClassEditor
- CustomDateEditor
- FileEditor
- LocaleEditor
- StringArrayPropertyEditor
- StringTrimmerEditor
- 184. What is the use of 'after return advice'?

Ans: Advice that is executed after the normal completion of a joinpoint is called the "after returning advice".

185. What are the things mapped in an XML? (Data type, value,....)

186. Describe Global and Local transactions in Spring.

Ans: Global transactions help to work with multiple transactional resources like relational database and message queue.

Global transactions are managed through JTA and JNDI. Local transactions are resource-specific like JDBC connection.

Local Transactions can work with multiple transactional resources.

188. What is the role of TransactionDefinition interface?

a. Isolation

- b. Propagation
- c. Timeout
- d. Read-only status

189. How can we roll back a declarative transaction?

We can use rollback-for and no-rollback-for attributes with transactional definition.

190. How many types of isolation are there?

a. ISOLATION_DEFAULT: default isolation.

- b. ISOLATION_READ_COMMITTED: dirty reads are prevented, non-repeatable and phantom reads are allowed.
- c. ISOLATION_READ_UNCOMMITTED: dirty reads are allowed, no-repeatable and phantom reads are allowed.
- d. ISOLATION_REPEATABLE_READ: dirty reads and non-repeatable reads are prevented but phantom reads are allowed.
- e. ISOLATION_SERIALIZABLE : dirty , non- repeatable reads and phantom reads are prevented.
- 191. How many types of Propagation are there?
- a. PROPAGATION_MANDATORY : supports current transaction and throws exception if no transaction available.
- b. PROPAGATION NESTED: runs with nested transaction
- c. PROPAGATION_NEVER: does not run with current transaction and throws exception if current transaction exits.

- d. PROPAGATION_NOT_SUPPORTED : runs non -transactionaly and does not support current transaction.
- e. PROPAGATION_REQUIRED: runs with current transaction and create one if does not exist.
- f. PROPAGATION_REQUIRES_NEW: creates new transaction and suspends if exits any.
- g. PROPAGATION_SUPPORTS: runs current transaction and runs non -transactionaly
- 192. Name attribute of @Column annotation permits the name of the column to be explicitly specified.
- a) true
- b) false
- 193. which of the following Allows you to add new methods or attributes to existing classes?
- a.Advice
- b.Join point
- c.Aspect
- d.Pointcut
- e.Target object
- f.Weaving

g.Introduction

- 194. Which of the statement is not correct?
- A) Core and beans modules provide the fundamental parts of the framework, including Dependency Injection feature.
- B)The SpEL module provides a powerful Expression Language for querying and manipulating an object graph at runtime.
- C)Aspects module provides integration with AspectJ.

D)None of the above.

- 195. SpEL is part of core container.
- A) False
- B)True

196 - Which are the modules of Web layer?
A) WebSocket, Servlet, Web, Portlet
B)WebSocket, Servlet, Web-MVC, Web
C)HTML, JSP, WEB, Portlet
D)HTML, Servlet, WEB, Portlet.
197. SpEX is NOT one of its module Core container.
A) True
B – False
198. Which of the statement is correct?
A) The JDBC module provides a JDBC-abstraction layer that removes the need to do tedious JDBC related coding.
B)The ORM module provides integration layers for popular object-relational mapping APIs, including JPA, JDO, Hibernate, and iBatis.
C)The Java Messaging Service JMS module contains features for producing and consuming messages.
D)All of the above.
199. Can we inject value and ref both together in a bean?
a) True
b) False
200. Beans, Core, Context, SpEL are the modules of core container.
a) trueb) false
201. How can you inject Java Collection in Spring??
A) Using list, set, map or props tag.

B)Using lit, set, map or collection tag.

C)Using list, set, props or collection tag.

D)Using list, collection, map or props tag.

- 202. Which of the following stands true for spring beans?
- A) Spring beans are managed by the Spring IoC container.
- B)Spring beans are instantiated, assembled, and otherwise managed by a Spring IoC container.
- C)Spring beans are simple POJOs.

D)All of the above.

203. Run advice before and after the advised method is invoked.

ans. around advice

204. Length attribute of @Column annotation permits the size of the column used to map a value particularly for a String value.

A) false

B)true

205. Needs to be implemented by objects that can resolve views by name.

ANS: ViewResolver

206. The @Transactional annotation allows u to define transactions programmatically.

Ans: FALSE

- 207. What are the ways to access Hibernate by using Spring?
 - A) Inversion of Control with a Hibernate Template and Callback.
 - B)Extending HibernateDAOSupport and Applying an AOP Interceptor node.

C)Both of above.

D)None of above.

208. What are the benefits of Spring Framework's transaction management?

a.It Provides a consistent programming model across different transaction APIs such as JTA, JDBC, Hibernate, JPA, and JDO.

b.It Supports declarative transaction management.

c.It Provides a simpler API for programmatic transaction management than a number of complex transaction APIs such as JTA.

d.All the listed

209. Given the following S	Spring configuration file, what is the correct answer:
 <bean class="com.spring.s</td><td>service.MyServiceImpl"></bean>	
<pre><pre><pre><pre>property name="repositor"</pre></pre></pre></pre>	ry" ref="jpaDao"/>
 dean class="com.spring.r"	repository.JpaDao"/>
i ii	 i. The first declared bean MyServiceImpl is missing an id must be named myService ii. The second declared bean JpaDao is missing an id must be named jpaDao ii. Answers 1 and 2 are both rights iv. Answers 1 and 2 are both wrong
220. which of the followin	g are the concerns which are needed in almost every module of an application
a)logging	
b)security	
c)data transfer	
221. Hibernate is the opena)trueb)false	object relational mapping tool for java.
222. which of the following	g can be values of beans?
 a. Bean b. All c. Collection(s d. Direct value e. Compound 	

223. Which of the following is not a type of mapping

a.Instance mapping

- b.Component mapping
- c.Association mapping
- d.Class mapping
- 224. Which of the following is true about element?
- A) The property> element is used to map a Java class property to a column in the database table.
- B)The name attribute of the element refers to the property in the class.
- C)The column attribute of the element refers to the column in the database table.

D)All of the above.

225. In Spring MVC which of the following is the front controller class that initializes the context based on the spring beans configuration?

a) or g. spring framework. we b. servlet. Dispatcher Servlet

- b)org.springframework.web.context.DispatcherServlet
- c)org.springframework.web.servlet
- d)org.springframework.web.context.ApplicationContext
- 226. The central artefact in spring javConfig is the @Configuratuion annotated class? State True or False
- a) TRUE
- b) FALSE
- 227. Which of the following situation represents many-to-many relationship?

A) An employee can have multiple certificates and same certificate can be conferred to many employees.

- B)An employee can have multiple certificates.
- C)A certificate can be conferred to many employees.
- D)All of the above.

228. SessionThis scopes a bean definition to an HTTP session only.
229. Which of the following element maps java.util.Map property in hibernate?
A) <set></set>
B) <list></list>
C) <bag></bag>
D) <map></map>
230. Is second level caching mandatory in hibernate?
A) true
B)false
231. In spring MVC each tag provides support to the set of attributes of its corresponding HTML tag counterpart making the tags familiar & intuitive to use. State true or False.
a) Trueb) false
232. Which of the following element maps java.util.Collection property in hibernate?
A) <set></set>
B) <list></list>
C) bag>
D) <map></map>
233. Which of the following is true about HQL?
A) Hibernate Query Language (HQL) is an object-oriented query language.
B)Instead of operating on tables and columns, HQL works with persistent objects and their properties

C)Both of the above.

D)None of the above.
234. Length returns number of rows in a column for only string type
a). TRUE
b). FALSE
235. The view interface inhibits the preparation of request and hands the request over to one of the view technologies in spring. State true or false
a)true
b)false
236. The data required for the request is in which part of spring MVC component?
a)model
b)view
c)controller
d)all
237. <id name="deptId" type="string"></id>
<pre><column length="30" name="columnid"></column></pre>
<generatoers></generatoers> <id></id> [/xml]
<id name="deptId" type="string"></id>
<column length="30" name="columnid"></column>
<generatoers></generatoers> <id></id> [/xml]
The above is an example of creating which key?
a.DB key
b.Unique key
c.Secondary key
d.Primary key

- 238. Which of the following is true about <class> element?
- A) The <class> elements are used to define specific mappings from a Java classes to the database tables.
- B)The Java class name is specified using the name attribute of the class element.
- C)The database table name is specified using the table attribute of the class element.

D)All of the above.

- 239. Which of the following is a many to one relationship
- a) many-to-one
- b) <many-to-one>
- c) None of the list
- d) <Manyone>
- 240. To use Hibernate for multiple databases, Configure multiple sessionFactory instances. State True or False.
 - a) True
 - b) False
- 241. Which of the following are CORRECT in SQL queries in Hibernate.
- I. SQL queries may contain named and positioned parameters, just like Hibernate queries
- II. You may express a query in SQL, using createSQLQuery()
- III. Hibernate take care of the mapping from result sets to objects
- IV. You may call session.connection() and use the JDBC Connection at any time.

select one

- a. I, II, and III
- b. I, II, and IV
- c. I, III, and IV

d. I, II, III, and IV

242. Which scope is a single bean definition to have any number of object instances

Prototype

243. @RequestMapping annotation is used to map a URL either an entire class or to particular handler method
a) True b) False
244. Beans, Core, Context, spEL are the components in Core container
b) True b) False
245. which of the following method returns the root element of the document in DOM parsing?
 a) Node.getFirstChild b) Node.getLastChild c) Document.getDocumentElement d) Node.getRoot
246. Which of the following is true about INSERT CLAUSE in HQL?
A) HQL supports INSERT INTO clause only where records can be inserted from one object to another object.
B)HQL supports INSERT INTO clause without any restriction.
C)Both of the above.
D)None of the above.
247. Element which can be used to inject a collection of name-value pairs where the name and the value are both Strings type.
a) <list></list>
b) <set></set>
c) <map></map>
d) <pre>cprops></pre>
248. Which type of annotation applies to bean property setter methods?
a)@Requires
b)@Resource

c)@Required
d)@Requiring
249. Which of the following tools/frameworks provides integration with Hibernate?
A) XDoclet Spring
B)J2EE
C)Maven
D)All of the above.
250. Which of the following is true about <id> element?</id>
A) The <id> element maps the unique ID attribute in class to the primary key of the database table.</id>
B)The name attribute of the id element refers to the property in the class.
C)The column attribute of the id element refers to the column in the database table.
D)All of the above.
251. what are the extension interface are there in hibernate?
a)ConnectionProvider interface
b)ProxyFactory interface
c)Transaction interface
d)Cache interface
e)all
252. which of the following is Hibernate?
a.Lightweight
b.Open Source
c.ORM
d.All of the listed
253. 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 254. You would need one session factory object per database using a separate config file. a) TRUE b) FALSE 255. IOC container is responsible to: • create the instance • configure the instance, and • assemble the dependencies 256. Which elements not supported by hql? A.sub B.where C.having D.select 257. What does hibernate batch update and delete do? a.doesnt effect any versioning columns(update only); b.can only be against a single object type; c.understands the instance; d.data is modified directly in db. e. all of above 258. does sessionLocaleResolver interceptor detects if a special parameter is present in current Http req? No 259. Which of the following are true about 'clean' maven life cycle a.used to build the application

b.generates site documentaion for the project
c.cleans up artefacts created by prior builds
d.none
260.J2EE integration with hibernate is very difficult.
a) TRUE
b) FALSE
261. Which clause allows you to narrow the list of instances returned?
a) Aggregate function
b) Where clausec) Select clause
d) joins
262. Constructor injection is difficult to inject. State True or False (doubt)
a) TRUE
b) FALSE
263. Which of the following great future if you can manage in long term?
A) constructor injection
B) schema mapping
C) classpath prefix
D) autowiring
264. Session.beginTransaction method begins a unit of work and returns the associated Transaction object.
A) true
B)false

265. How many bean scopes are specified in singleton by default?
a.6
b.7
c.5
d.none
266. Hibernate inhibits you to express queries in its own portable SQL extension (HQL)as well as in native SQL , or with an object oriented criteria
a)true
b)False
267. Tags generated by form tag lib are compliant with xhtml-1.0 strict specification and attendant dtd.
a) Trueb) false
o) taise
268. Archetype is a maven plugin whose task is to create a project structure as per its template
c) True
d) false
269. how do u provide configuration metadata to spring container?
a.xml based config fle
b.annotation based config
c.java based config
270. Carrier and indications in distribute accorded by a constant and a constant and an
270. Spring applications is tightly coupled because of dependency injection
a)True
b)False
271. Named queries are created via which level of annotations on entities?
a.all-level

b.high-level
c.low
d.class level
272. The SessionFactory is heavyweight object.
A) false
B) true
273. What is the difference between get() and load() methods of session object?
A) get() returns null if no data is present where as load throws ObjectNotFoundException exception in succase.
B)get() always hits the database whereas load() method doesn't hit the database.
C)get() returns actual object whereas load() returns proxy object.
D)All of the above.
274. The test module supports the testing of spring components with junit for testing
a) True
b) false
275. In controller which is recognished for any desired the most in equip a rever (not even)
275. In controller which is responsible for rendering the page in spring mvc(not sure)
a.browser
b.http
c.database
d.application
276. XML Schema-based configuration introduced in Spring 2.0
277. Spring can organize which type of objects?
a.application layer

b.database layer
c.network
d.browser
278. Which is not a module in spring framework? (ORM/DAO/MVC/none)none
279. Hibernate is an open ORM tool for java(t/f) true
280. Which element of hbm.xml automatically generate the primary key values?
A) id
B)generator
C)primaryKey
D)None of the above.
281.The Spring MVC pattern does not separate the different aspects of the application into input logic, business logic, and UI logic.a) trueb) false
282.use of addclass function
a) it is used to convert java class name into file nameb) with the file name, input stream, reader will be processedc) using add class, other classes will be used efficiently.
283.Constructors in a class can be?
a. may be defined as private
b. Contains same name as class
c. used to create objects
d. all the above
284. Spring is tightly coupled framework using DI.

a) True

b) False

285. Which is correct?

- a. Hibernate is an object oriented query language
- b. It is database independent
- c. it supports pagination
- d. HQL statements will be converted to SQL or other language the database supports
- e. all the above

286. Which State does data contains----- model

287. Using the Spring AOP framework, what are the joinpoint methods of the following pointcut expressions?

execution(public * *(..))

- a. The execution of all public method
- b. The execution of all public method returning a value
- c. The execution of all public method having at least one parameter
- d. The execution of all public method in class belonging to the default java package

288. 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

289 What ORM stands for?

A) Object Relation Map

B)Object Relational Mapping

C)Object Record Mapping

D)None of the above.

290 Which of the following is true about configuration component of Hibernate?
A) The Configuration object is the first Hibernate object you create in any Hibernate application.
B)The Configuration object is usually created only once during application initialization.
C)The Configuration object represents a configuration or properties file required by the Hibernate.
D)All of the above.
291 Session.createQuery creates a new instance of Query for the given HQL query string.
A) True
B)False
292. Which element of hbm.xml defines maps the unique ID attribute in class to the primary key of the database table?
A) Id
B)Generator
C)Primary Key
D)None of the above.
293. Which of the following element maps java.util.SortedMap property in hibernate?
A) <set></set>
B) <list></list>
C) bag>
D) <map></map>
294. What is lazy loading?
A) Lazy loading is a technique in which objects are loaded on demand basis.
B)Lazy loading is a technique in which objects are persisted on demand basis.
C)Both of the above.
D)None of the above.
295. What is first level cache in hibernate?
A) The first-level cache is the Session based cache.

B)The first-level cache is the SessionFactory based cache.
C)Both of the above.
D)None of the above.
296. When a Transactional concurrency strategy is to be used?
A) Use it for reference data only.
B)Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions.
C)Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern.
D)None of the above.
297. Which of the following is a core component of Hibernate?
A) Transaction
B)SessionFactory
C)Session
D)All of the above
298. Which of the following is true about @GeneratedValue annotation?
A) @GeneratedValue annotation takes two parameters strategy and generator.
B)@GeneratedValue annotation provides the primary key generation strategy to be used.
C)Both of the above.
D)None of the above.
299. Which of the following is not an ORM framework?
A) Castor
B)Spring DAO
C)Hibernate
D)NoSQL

300. Which of the following is true about SessionFactory object in hibernate?
A) The SessionFactory is heavyweight object.
B)SessionFactory object is created during application start up and kept for later use.
C)You would need one SessionFactory object per database using a separate configuration file.
D)All of the above.
301. Which of the following is true about transient state of a persistent entity?
A) A new instance of a persistent class which is not associated with a Session
B)A new instance of a persistent class which has no representation in the database.
C)A new instance of a persistent class which has no identifier value.
D)All of the above.
302. Which method is used to re-read the state of the given instance from the underlying database?
A) Session.refresh()
B)Session.get()
C)Session.reload()
D)Session.retrieve()
303. Which of the following element maps java.util.List property in hibernate?
A) <set></set>
B) <list></list>
C) bag>
D) <map></map>
304. Child objects are not loaded when parent is loaded/populated from database. What this technique is called?
A) Eager Loading
B)Lazy Loading
C)Request based Loading

D)None of the above.
305. What HQL stands for?
A) Hibernate Query Language
B)High Query Language
C)Hybrid Query Language
D)None of the above.
306. Form tags are available in springs is more compatible with html tags for better development
State True or False
a) true
b) false
307. A Session is used to get a physical connection with a database.
A) true
B)false
308. Which of the following is true about HQL?
A) Hibernate supports named parameters in its HQL queries.
B)HQL supports a range of aggregate methods, similar to SQL.
C)Both of the above.
D)None of the above.
Divole of the above.
309. Which of the following is true about hibernate. Dialect property in hibernate configuration?
309. Which of the following is true about hibernate. Dialect property in hibernate configuration? A) This property makes Hibernate generate the appropriate SQL for the chosen database.
309. Which of the following is true about hibernate. Dialect property in hibernate configuration? A) This property makes Hibernate generate the appropriate SQL for the chosen database. B)This property makes Hibernate generate the appropriate java code for the chosen database.
309. Which of the following is true about hibernate. Dialect property in hibernate configuration? A) This property makes Hibernate generate the appropriate SQL for the chosen database. B)This property makes Hibernate generate the appropriate java code for the chosen database. C)Both of the above.
309. Which of the following is true about hibernate. Dialect property in hibernate configuration? A) This property makes Hibernate generate the appropriate SQL for the chosen database. B)This property makes Hibernate generate the appropriate java code for the chosen database.

510. Which method is used to save the state of the given instance from the underlying database:
A) Session. Store ()
B)Session. Keep ()
C)Session. Save ()
D)Session. Load ()
311. Which of the following is correct about dependency injection?
A) It helps in decoupling application objects from each other.
B)It helps in deciding the dependencies of objects.
C)It stores objects states in database.
D)It stores object states in file system.
312. Configure single sessionFactory per database, using separate configuration file.
a) Trueb) False
b) Taise
313. When a Read-write concurrency strategy is to be used?
A) Use it for reference data only.
B)Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions.
C)Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern.
D)None of the above.
314. What is Advice?
A) This is the way to instruct object to behave in certain manner.
B)This is used to inject values in objects.
C)This is the actual action to be taken either before or after the method execution.
D)This is not invoked during program execution by Spring AOP framework.
315 What is Introduction?

A) An introduction represents a point in your application where you can plug-in AOP aspect.

B)This is used to inject values in objects.
C)This is not invoked during program execution by Spring AOP framework.
D)An introduction allows you to add new methods or attributes to existing classes.
316. How to use ref keyword in beans.xml?
A) Using setter method only.
B)Using constructor argument only.
C)Using setter method and constructor argument both.
D)None of the above.
317. By default a bean is eagerly loaded.
A) False
B)True
318.A bean must have id attribute in beans configuration file.
A) True
B)False
319. What is a DispatcherServlet?
A) DispatcherServlet is used for transaction management.
B)DispatcherServlet is used for AOP.
C)DispatcherServlet handles all the HTTP requests and responses.
D)DispatcherServlet is used for Dependency injection.
320. Which of the statement is not correct?
A) Core and beans modules provide the fundamental parts of the framework, including Dependency Injection feature.
B)The SpEL module provides a powerful Expression Language for querying and manipulating an object graph at runtime.

C)Aspects module provides integration with AspectJ.

D)None of the above. 321. What is singleton scope? A) This scopes the bean definition to a single instance per Spring IoC container. B)This scopes the bean definition to a single instance per HTTP Request. C)This scopes the bean definition to a single instance per HTTP Session. D)This scopes the bean definition to a single instance per HTTP Application/ Global session. 322. Which of the following object is used to create SessionFactory object in hibernate? A) Configuration B)Session C)SessionFactory D)Transaction 323. What is Weaving? A) Weaving is the process of injecting values in objects to create an advised object. B) Weaving is the process of linking aspects with other application types or objects to create an advised object. C)This is used to inject values in objects. D)Weaving is used to check object dependencies. 324. Which ORM Spring supports? A) Hibernate B)iBatis C)JPA D)All of above. 325. How to handle shut down of IoC container?

A) Using shutdownHook()

B)Using shutdownHandler()
C)Using registerHook()
D)Using registerShutdownHook()
326. Which of the following class can be used to execute Sql queries in spring?
A)JdbcTemplate
B) JDBCHelper
C)DBHelper
D)DBTemplate
327. Which is the correct implementation class of BeanFactory?
A) XmlBeanFactory
B)ClassPathBeanFactory
C)FileSystemBeanFactory
D)AdvancedBeanFactory
328. What is bean autowiring?
A) Autowiring lets Spring resolve collaborators (other beans) for your bean by inspecting the contents of the BeanFactory without using <constructor-arg> and <pre> and <pre> elements</pre>.</pre></constructor-arg>
B)Autowiring injects values in spring beans.
C)Autowiring injects one bean into another.
D)Autowiring helps in wiring a list of values, allowing duplicates.
329. How to get object of a service in spring framework?
A) Using new keyword
B)Using dependency injection
330. If a bean is scoped to HTTP request, scope is
A) session
B)global-session

C)prototype			
D)request			
331. Can be bean be	configured to have an inner bean?		
A) True	B)False		
332. What is global-	session scope?		
A) This scopes a be	an definition to an HTTP Application/ Global session.		
B)This scopes the be	ean definition to Spring IoC container.		
C)This scopes the be	ean definition to HTTP request.		
D)This scopes the be	ean definition to HTTP Session.		
333. What is Target	object?		
A) A represents a ob	ject in your application where you can plug-in AOP aspect.		
B)The object being advised by one or more aspects, this object will always be a proxy object, also referred to as the advised object.			
C)This is used to inj	ect values in objects.		
D)This is not invoke	ed during program execution by Spring AOP framework.		
334. Core container	334. Core container has AOP as one of its module.		
A) True	B)False		
335. Which class is	used to map a database row to a java object in spring?		
A) ResultSet	A) ResultSet		
B)RowMapper			
C)RowSetMapper			
D)ResultSetMapper			
336. Which are the r	modules of Data Access/ integration layer?		
A) JDBC, ORM, O	A) JDBC, ORM, OXM, JMS, Transactions		

B)JDBC, ORM, OXM, JMS

C)JDBC, ORM, Web, Beans

D)JDBC, ORM, OXM, JMS

337. Which of the statement is correct?

A) The JDBC module provides a JDBC-abstraction layer that removes the need to do tedious JDBC related coding

B)The ORM module provides integration layers for popular object-relational mapping APIs, including JPA, JDO, Hibernate, and iBatis.

C)The Java Messaging Service JMS module contains features for producing and consuming messages.

D)All of the above.

- 338. What is true about <map> collection configuration elements?
- A) This helps in wiring a list of values, allowing duplicates.
- B)This helps in wiring a list of values but without any duplicates.

C)This can be used to inject a collection of name-value pairs where name and value can be of any type.

- D)This tag is not supported.
- 339. What is true about @Autowired annotation?
- A) The @Autowired annotation can be used to autowire bean on the setter method.
- B)This annotation provides more fine-grained control over where and how autowiring should be accomplished.
- C)The @Autowired annotation can be used to autowire bean on the methods with arbitrary names and/or multiple arguments.

D)All of above.

- 340. How do you turn on annotation wiring?
- A) Add <annotation-context:config /> to bean configuration.
- B)Add <annotation-config /> to bean configuration.
- C)Add <annotation-context-config /> to bean configuration.

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

341. How after-throwing advice works?
A) Run advice after a method execution only if method exits by throwing an exception.
B)Run advice after a class loads only if class throws exception during load time.
C)Run advice after http response is returned with error status.
D)Run advice after http request is processed and an exception occurred.
342. Expression Language/ SpEL was introduced in which version of spring framework.
A) 1.0
B)2.0
C)3.0
D)4.0
343. What are the main advantage(s) for using Spring when writing integration tests?
a) Reuse Spring configuration files of the application
b) Create mock or stub
c) Be able to use the rollback after the test pattern
d) Use dependency injection
344. What is true about <set> collection configuration elements?</set>
A) This helps in wiring a list of values, allowing duplicates.
B)This helps in wiring a list of values but without any duplicates.
C)This can be used to inject a collection of name-value pairs where name and value can be of any type.
D)This can be used to inject a collection of name-value pairs where the name and value are both Strings.
345. What are the different points where weaving can be applied?
A) Compile time, load time
B)Compile time, run time
C)Run time

D)Compile time, load Time, Run time

346. Which of the following is part of Data Access layer in Spring framework?
A) Beans
B)Aspects
C)JMS
D)Context
347. What BeanPostProcessor does?
A) It processes beans once a bean is initialized.
B)It defines callback methods that you can implement to provide your own instantiation logic, dependency-resolution logic etc.
C)It processes beans once a bean is loaded.
D)It processes beans once a bean exits.
348. Which are the IoC containers in Spring?
A) BeanFactory, ApplicationContext
B)BeanFactory, ApplicationContext, IocContextFactory
C)BeanFactory, BeanContext, IocContextFactory
D)BeanFactory, ApplicationContext, BeanContext
349. What is no mode of autowiring?
A) Default setting which means no autowiring and you should use explicit bean reference for wiring.
B)Autowiring by property name.
C)Spring first tries to wire using autowire by constructor, if it does not work, Spring tries to autowire by byType.
D)Similar to byType, but type applies to constructor arguments.
350. What is ContextRefreshedEvent event?
A) This event is published when the Servlet Context is either initialized or refreshed.
B)This event is published when the HTTP Request is received.

C)This event is published when the HTTP Response is returned.

D) This event is published when the Application Context is either initialized or refreshed.

- 351. How after-returning advice works?
- A) Run advice after a class loads only if class loads successfully.

B)Run advice after a method execution only if method completes successfully.

- C)Run advice after http response is returned only if http response is success.
- D)Run advice after http request is processed with no exception.
- 352. What are the types of the transaction management Spring supports?
- A) Programmatic transaction management
- B)Declarative transaction management
- C)Both of above.
- D)None of above.
- 353. 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.
- C)Logging is one of the examples of cross cutting concerns.
- D)All of the above.
- 354. What is true about collection configuration elements?
- A) This helps in wiring a list of values, allowing duplicates.
- B)This helps in wiring a list of values but without any duplicates.
- C)This can be used to inject a collection of name-value pairs where name and value can be of any type.
- D)This can be used to inject a collection of name-value pairs where the name and value are both Strings.
- 355. What is byType mode of autowiring?
- A) Default setting which meas no autowiring and you should use explicit bean reference for wiring.
- 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.

C)Spring first tries to wire using autowire by constructor, if it does not work, Spring tries to autowire by byType.

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.

- 356. What is Join point?
- A) This represents a point in your application which joins two objects.
- B)This represents a point in your object where you join values.
- C)This represents a point in your object where you join injected values.
- D)This represents a point in your application where you can plug-in AOP aspect.

357. 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)

- a) The classpath: prefix could be omit
- b) Package name with dot is not well formatted using the dot character
- c) The slash character preceding com.example could be omit
- d) All of the above
- e) None of the above

358. If a bean can be created any number of times, scope is

A) session

B)global-session

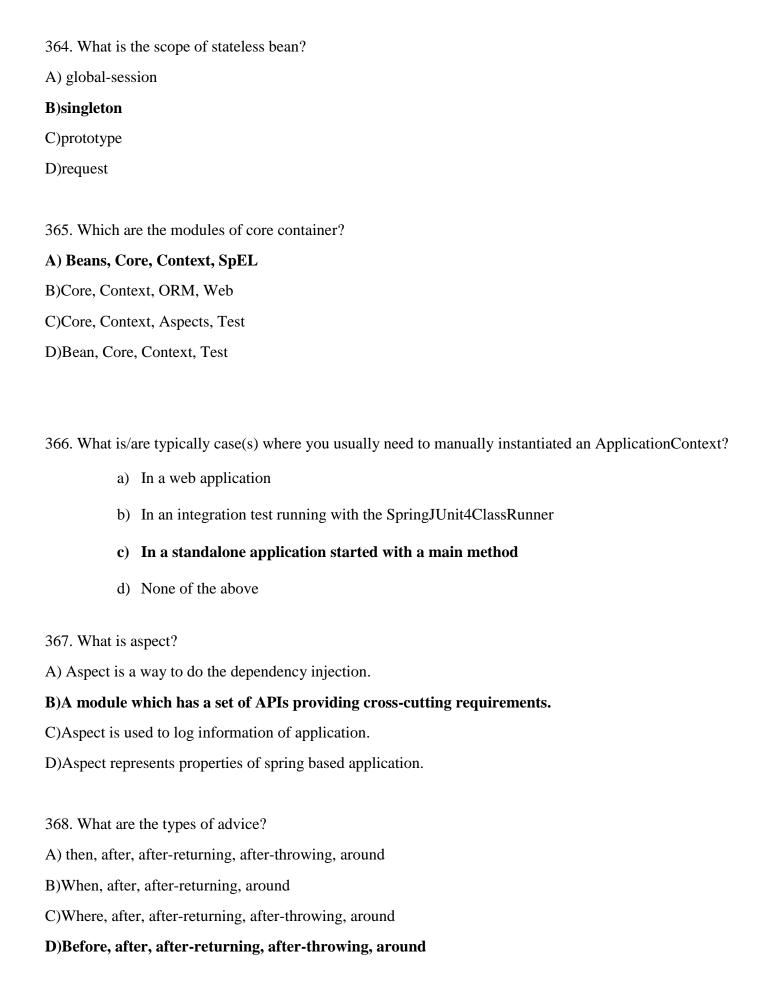
C)prototype

D)request

359. What is spring?

A) Spring is an open source development framework for enterprise Java.

B)Spring is a proprietary framework. C)Spring is a development framework for .Net applications. D)Spring is a development framework for PHP based applications. 360. What is prototype scope? A) This scopes a single bean definition to have any number of object instances. B)This scopes the bean definition to a single instance per HTTP Request. C)This scopes the bean definition to a single instance per HTTP Session. D)This scopes the bean definition to a single instance per HTTP Application/ Global session. 361. What does @Required annotation mean? A) This annotation indicates that bean property must be populated by the user. B)This annotation indicates that bean property is required while saving the bean data to database. 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. 362. How before advice works? A) Run advice before a class loads. B)Run advice before a method execution. C)Run advice before http response is to be returned. D)Run advice before http request is to be processed. 363. Which of the following database is not supported using jdbcTemplate? A) MySql B)PostgresSql C)NoSql D)Oracle



367. Can we integrate S	Struts with Spring.
A) Yes	
B)No	
368. Which are the diff	Ferent modes of autowiring?
A) no, byName, byTy	pe, constructor, autodetect
B)no, byName, byType	e, constructor, autocorrect
C)byName, byContent,	, constructor, autodetect
D)byName, byContent,	, setter, autodetect
369. By default a bean	is eagerly loaded.
A) False	B)True
370. Where do you def	ine DispatcherServlet?
A) In Beans configurat	ion file.
B)Web.xml file	
C)Meta-inf/dispatcher.	xml
D)Web-inf/ dispatcher.	xml
371. What is true about	t BeanPostProcessor?
A) It is a concrete class	3.
B)It is an interface.	
C)It is an abstract class	i.
D)None of the above.	
372. Hibernate session	is the main runtime interface between java applications and hibernate.
a) TRUE	b) FALSE

- 373. Which of the following is true about @Column annotation?
- A) The @Column annotation is used to specify the details of the column to which a field or property will be mapped.
- B)The @Column annotation is applied on a class.

C)Both of the above.

D)None of the above.

- 374. What is @Controller annotation?
- A) The @Controller annotation indicates that a particular class serves the role of a controller.
- B)The @Controller annotation indicates how to control the transaction management.
- C)The @Controller annotation indicates how to control the dependency injection.
- D)The @Controller annotation indicates how to control the aspect programming.
- 375. What is ACID in transactional management?
- A) Accurate, Controlled, Isolation, Durability
- B)Atomicity, Consistency, Independent, Done
- C) Atomicity, Consistency, Isolation, Durability
- D)Accurate, Controlled, Independent, Done
- 376. What is RequestHandledEvent:event?
- A) This event is published when the Servlet Context is either initialized or refreshed.
- B)This event is published when the HTTP Request is received.
- C)This event is published when the HTTP session is initialized or refreshed.
- D)This event is published when the HTTP Request is serviced.
- 377. Application contexts provide a generic way to load file resources, such as images.
 - a) True
 - b) False

- 378. What is easier to do by using Spring JMS support? Select one or more correct answers.
 - a. Register any Spring bean as JMX MBean
 - b. Register an existing MBean with a MBeanServer
 - c. Accessing to remote MBean
 - d. Control the attributes and the operations of a Spring bean exposes as a MBean
- 379. What is the scope of bean in portlet context?
- A) session

B)global-session

C)prototype

D)request

- 380. What is autodetect mode of autowiring?
- A) Similar to byType, but type applies to constructor arguments. If there is not exactly one bean of the constructor argument type in the container, a fatal error is raised.
- 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.

C)Spring first tries to wire using autowire by constructor, if it does not work, Spring tries to autowire by byType.

- 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.
- 381. What is Pointcut?
- A) This represents a point in your application where you can plug-in AOP aspect.
- B)This is a set of one or more joinpoints where an advice should be executed.
- C)This is used to inject values in objects.
- D)This is invoked during program execution by Spring AOP framework.
- 382. Which class acts as IoC Container?
- A) ServletContext
- B)DispatcherServlet

C)ApplicationContext

D)None of the above

383. What is constructor mode of autowiring?

A) Autowiring by property name. Spring tries to match and wire its properties with the beans defined by the same names in the configuration file.

B)Spring first tries to wire using autowire by constructor, if it does not work, Spring tries to autowire by byType.

C)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.

D)Similar to byType, but type applies to constructor arguments. If there is not exactly one bean of the constructor argument type in the container, a fatal error is raised.

384. How bean life cycle can be controlled?

A) Using init() only

B)Using InitializingBean class only

C)Using DisposableBean class only

D)Using All of above

385. Which of the following class can be used to call Stored Procedures in spring?

A) SPHelper

B)JdbcTemplateCall

C)JdbcTemplate

D)SimpleJdbcCall

386. Which element of hbm.xml is used to map a Java class property to a column in the database table?

A) id

B)generator

C)property

D)class

387. How around advice works?

A) Run advice before and after the advised method is invoked.
B)Run advice before and after a class is loaded.
C)Run advice before and after http response is returned.
D)Run advice before and after http request is processed.
388. validation, rejectIfEmptyOrWhiteSpace or rejectIfEmpty is used- True
389. Cache is simply to enhance the performance and it sits between application and database.
a) True
b) False
390. Hibernate helps in mapping of java objects with database tables
a) true
b) false
391. Scope that are used only in web aware application context
• Request
SessionGlobal session
Global session
392. What is Query level cache in hibernate?
A) The query-level cache is cache for query result sets that integrates closely with the second-level cache.
B)The query-level cache is the Session based cache.
C)Both of the above.
D)None of the above.
393. Which of the following is a concurrency strategy in hibernate?
A) Transactional
B)Read-write
C)No strict-read-write.

D)All of the above.

- 394. Which of the following is true about @Id annotation?
- A) Hibernate detects that the @Id annotation is on a field.
- B)Hibernate assumes that it should access properties on an object directly through fields at runtime.

C)Both of the above.

- D)None of the above.
- 395. Which of the following is true about HQL?
- A) HQL queries are translated by Hibernate into conventional SQL queries which in turns perform action on database.
- B)The AS clause can be used to assign aliases to the classes in HQL queries.

C)Both of the above.

D)None of the above.

- 396. Which of the following is true about ORM?
- A) ORM stands for Object-Relational Mapping.
- B)ORM is a programming technique for converting data between relational databases.

C)Both of the above.

D)None of the above.

- 397. Which of the following is true about Query object in hibernate?
- A) Query objects Hibernate Query Language (HQL) string to retrieve data from the database and create objects.
- B)Query objects SQL string to retrieve data from the database and create objects.
- C)A Query instance is used to bind query parameters, limit the number of results returned by the query, and finally to execute the query.

D)All of the above.

398. Session.createSQLQuery creates a new instance of Query for the given SQL query string.

A) true
B)false
399. Which method is used to get a persistent instance from the datastore?
A) Session.read()
B)Session.get()
C)Session.retrieve()
D)Session.fetch()
400. Which of the following is true about <generator> element?</generator>
A) The <generator> element within the id element is used to automatically generate the primary key values</generator>
B)Set the class attribute of the generator element is set to native to let hibernate pick up either identity, sequence or Hilo algorithm to create primary key depending upon the capabilities of the underlying database.
C)Both of the above.
D)None of the above.
401. Which of the following element is used to represent one-to-many relationship in hibernate?
A) <one-to-many></one-to-many>
B) <one-many></one-many>
C) <onetomany></onetomany>
D)None of the above.
402. Is query level caching mandatory in hibernate?
A) true
B)false
403. When a Read-only concurrency strategy is to be used?
A) Use it for reference data only.
B)Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions

C)Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern.
D)None of the above.
404. Which of the following is true about hibernate annotations?
A) Hibernate Annotations is the powerful way to provide the metadata for the Object and Relational Table mapping.
B)All the metadata is clubbed into the POJO java file along with the code this helps the user to understand the table structure and POJO simultaneously during the development.
C)Both of the above.
D)None of the above.
405. Which of the following is not a core component of Hibernate?
A) JDBC
B)SessionFactory
C)Session
D)Configuration
406. Is Session a thread-safe object?
A) true
B)false
407. Which method is used to remove a persistent instance from the datastore?
A) Session.delete()
B)Session.remove()
C)Session.del()
D)Session.rm()
408. Which method is used to save or update the state of the given instance from the underlying database?
TOO. WINON MONDO IS USED TO SAVE OF APPARE THE STATE OF THE ETVENT HISTORICE HORIZON THE UNDERLYING HARDIANE!

A) Session.saveOrUpdate()		
B)Session.keep()		
C)Session.update()		
D)Session.load()		
409. Is first level caching mandatory in hibernate?		
A) true		
B)false		
410.which of the following is an invalid annotation?		
a) @RequestParam		
b) @PathValid		
c) @Responsevalid d) @RequestMapping		
411. POM file should contain versionID, groupID, ArtifactId True		
412. Types of aspect implementation		
 XML schema based 		
Java Based		
@AspectJ based		
413. How could you implement a JMS Listener using the Spring JMS support? Select one or more correct		
answers.		
a. By implementing the javax.jms.MessageListener interface		
b. By implementing the SessionAwareMessageListener interface provided by Spring		
c. Without any code, only using the jms namespace provided by Spring		
d. By writing a single POJO without parent class or interface		

414. Which of the following is true about Transaction object in hibernate?

B)Transactions in Hibernate are handled by an underlying transaction manager.
C)This is an optional object and Hibernate applications may choose not to use this interface, instead managing transactions in their own application code.
D)All of the above
415. What do you have to do even if you are using the RMI Spring Remoting support? Select one or more
correct answers.
a. Implements the Remote interface
b. Extends the RemoteObject class
c. Catching the RemoteException exception
d. Implements the Serializable interface
416. What is a view resolver?
a) class
b) interface
c) object d) argument
417. Model is used to encapsulate the response data
a) true
b) false
418. Which one interpret user input and transform it into a model that is represented to the user by the view.
a) controller
b) dispatcher servlet
c) model d) browser
419. Which one runs advice before and after the advised method is invoked.
127. THE ONE TWO WATER DELOTE WILL WITH ME WATER MICHIGA IS HITOROG.

A) A Transaction represents a unit of work with the database.

b) c)	after before around none of the above
	ength attribute of @column annotation permits the size of the column used to map a value larly for a string value.
	true b)false
421. A _I a)tr b)fa	
a)b)c)	nich is not used as java annotation @component @bean @configuration none
423. W	hat the three inheritance models of hibernate?
Hiberna	ate has following three inheritance models:
a. Tabl	es Per Concrete Class
b. Tabl	le per class hierarchy
c. Tabl	e per sub-class
	use spring MVC validator, which of the following is used to start the validator?- ve to select more than nose al the check box
A) over	ride supports
B) overi	ride validate
C) over	ride validator
D) over	ride creates

425. index and type can be used in the constructor-arg at the same time?	
State True or False	
a)TRUE	
b) FALSE	
426. Spring offers four types of collection configuration elements.	
• List	
• Set	
• Map	
427. Which of the following database is supported by Hibernate?	
A) DB2/NT	
B)PostgreSQL	
C)Sybase SQL Server	
D)All of the above	
428. Configuration object is used to create SessionFactory object in hibernate.	
A) true	
B)false	
429. Which of the following is the root node of hbm.xml file?	
A) hibernate-mapping	
B)hibernate-config	
C)class-mapping	
D)class-config	
430. What is exact about the HttpInvokerServiceExporter? Select one or more correct answers.	

- a. Has to run into a HTPP server as Jetty
- b. Could process both POST and GET requests
- c. Could be used with any http client as Jakarta Commons HttpClient
- d. Could consume SOAP http request
- 431. What is the method that is not provided by the JmsTemplate Spring class?
 - a. convertAndSend
 - b. onMessage
 - c. receiveAndConvert
 - d. setDefaultDestination
- 432. How is named the bean that is defined in the following configuration class. Select a single answer.

```
@Configuration
public class ApplicationConfig {
@Autowired
private DataSource dataSource;
@Bean
ClientRepository clientRepository() {
ClientRepository accountRepository = new JpaClientRepository();
accountRepository.setDataSource(dataSource);
return accountRepository;
}
}
1. JpaClientRepository
```

- 2. jpaClientRepository
- 3. clientRepository
- 4. Two beans are defined : a data souce and a repository
- 433. How could you externalize constants from a Spring configuration file or a Spring annotation into a .properties file? Select one or more answers
 - a. By using the <util:constant /> tag
 - b. By declaring the ConstantPlaceholderConfigurer bean post processor
 - c. By using the <context:property-placeholder /> tag
 - d. By using the c: namespace
- 434. What is the purpose of the @ManageResource annotation? Select a single answer.
 - a. Expose a bean's property (getter/setter) to JMX
 - b. Expose a bean's method to JMX

- c. Identify a Spring bean as a JMX MBean
- d. None of the above

435. What are the right affirmations about the @PostConstruct, @Resource and the @PreDestroy annotations?

- a. Those annotations are specified in the JSR-250
- b. The Spring Framework embedded those annotation
- c. The <context:component-scan> tag enable them
- d. The <context:annotation-config > tag enable them
- e. Declaring the CommonAnnotationBeanPostProcessor enable them

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

- a. In a web application
- b. In an integration test running with the SpringJUnit4ClassRunner
- c. In a standalone application started with a main method
- d. None of the above

437. 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");

- a) The classpath: prefix could be omit
- b) Package name with dot is not well formatted using the dot character
- c) The slash character preceding com.example could be omit
- d) All of the above
- e) None of the above

438. How to auto-inject into a field a bean by its name? Select one or more response.

- a) With the name attribute of the @Autowired annotation
- b) By using the single @Qualifier annotation
- c) By using both the @Autowired and the @Qualifier spring annotations

d) By using the @Autowired annotation and naming the field with the bean name

- 439. What are the main advantages of using interfaces when designing business services? Select one or more answers.
 - a. Mocking or stubbing the service
 - b. Be able to use the Spring auto-injection
 - c. Can do dependency checking
 - d. Loosely coupled code
- 440. Select one or many correct answers about spring bean life cycle.
- 1. The method annoted with @PostConstruct is called after bean instantiation and before properties setting of the bean
- 2. The method @PreDestroy of a prototype bean is called when the bean is garbage collected
- 3. The init() method declared in the init-method attribute of a bean is called before the afterPropertiesSet callback method of the InitializingBean interface
- 4. The method annotated with @PostConstruct is called before the afterPropertiesSet callback method of the InitializingBean interface

```
441. Given the following configuration class, what are correct affirmations? Select one or more answers.
public class ApplicationConfig {
  private DataSource dataSource;
  @Autowired
  public ApplicationConfig(DataSource dataSource) {
    this.dataSource = dataSource;
  }
  @Bean(name="clientRepository")
  ClientRepository jpaClientRepository() {
    return new JpaClientRepository();
  }
}
```

- a. @Configuration annotation is missing
- b. Default or no-arg constructor is missing
- c. @Bean name is ambiguous
- d. @Bean scope is prototype
- 442. What are the features of the XML <context: namespace? Select one or many answers.
- 1. @Transactional annotation scanning
- 2. @Aspect annotation detection enabling
- 3. @Autowired annotation enabling
- 4. @Component annotation scanning

- 443. Select one or more correct statements about developing integration test with Spring support.
- a) A new Spring context is created for each test class
- b) To get a reference on the bean you want to test, you have to call the getBean() method of the Spring context
- c) Spring context configuration could be inherits from the super class
- d) The Spring context configuration file has to be provided to the @ContextConfiguration annotation

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

- a. Reuse Spring configuration files of the application
- b. Create mock or stub
- c. Be able to use the rollback after the test pattern
- d. Use dependency injection

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

- a. Reuse Spring configuration files of the application
- b. Use dependency injection
- c. Provide some mocks for servlet classes
- d. All of the above
- e. None of the above

446. What is right about the spring test module?

- a. It provides an abstraction layer for the main open source mock frameworks
- b. Provides the @Mock annotation
- c. It dynamically generates mock objects
- d. All of the above
- e. None of the above

447. Select correct statement(s) about transactional support of the spring test module.

- 1. Transaction manager could be set within the @TransactionConfiguration annotation
- 2. Method annotated with @Before is executed outside of the test's transaction
- 3. Spring test may rollback the transaction of a service configured with the REQUIRES_NEW

propagation

4. The transaction of a method annotated with the @Rollback annotation with its default values is rolled back after the method has completed

448. Considering 2 classes AccountServiceImpl and ClientServiceImpl. Any of these 2 classes inherits from each other. What is the result of the pointcut expressions?

execution(* *..AccountServiceImpl.update(..))

&& execution(* *..ClientServiceImpl.update(..))

- 1. Matches pubic update methods of the 2 classes, whatever the arguments
- 2. Matches any update methods of the 2 classes , whatever the arguments and method visibility
- 3. Matches any update methods of the 2 classes , with one more arguments and whatever method visibility
- 4. No joint point is defined

449. Using the Spring AOP framework, what is the visibility of the method matches by the following join point?

@Pointcut("execution(* *(..))")

private void anyOperation() {};

- 1. All methods, whereas there visibility
- 2. All methods, except private method
- 3. Protected and public methods
- 4. Public methods

500. What are the 2 correct statements about AOP proxy?

- 1. AOP proxies are created by Spring in order to implement the aspect contracts
- 2. AOP proxies are always created with a JDK dynamic proxy
- 3. Only classes that implements a least one interface could be proxied
- 4. All methods could be proxied
- 5. Proxies are created by a BeanPostProcessor
- 501. What is an after throwing advice? Select a unique answer.

- 1. Advice that could throw an exception
- 2. Advice to be executed if a method exits by throwing an exception
- 3. Advice that executes before a join point
- 4. Spring does not provide this type of advice
- 502. What is an after returning advice? Select a unique answer.
- 1. Advice to be executed regardless of the means by which a join point exits
- 2. Advice that surrounds a method invocation and can perform custom behavior before and after the method invocation
- 3. Advice to be executed before method invocation
- 4. Advice to be executed after a join point completes without throwing an exception
- 503. What is an advice? Select a unique answer.
- 1. An action taken by an aspect at a particular join point
- 2. A point during the execution of a program
- 3. An aspect and a pointcut
- 4. A predicate that matches join points
- 504. What is a pointcut? Select a unique answer.
- 1. Code to execute at a join point
- 2. An expression to identify joinpoints
- 3. An advice and a jointpoint
- 4. None of the above
- 505. Select method's signatures that match with the following pointcut: execution(* com.test.service..*.*(*))
- 1. void com.test.service.MyServiceImpl#transfert(Money amount)
- 2. void com.test.service.MyServiceImpl#transfert(Account account, Money amount)
- 3. void com.test.service.account.MyServiceImpl#transfert(Money amount)
- 4. void com.test.service.account.MyServiceImpl#transfert(Account account, Money amount)
- 5. None of the above

506. What are the unique correct answers about Spring AOP support?

- **1.** An advice could proxied a constructor's class
- 2. A point cut could select methods that have a custom annotation
- 3. Static initialization code could be targeted by a point cut
- 4. Combination of pointcuts by &&, || and the! operators is not supported

507.Using the Spring AOP framework, what are the joinpoint methods of the following pointcut expressions?

execution(public * *(..))

1. The execution of all public method

- 2. The execution of all public method returning a value
- 3. The execution of all public method having at least one parameter
- 4. The execution of all public method in class belonging to the default java package

508. Why is it a best practice to mark transaction as read-only when code does not write anything to the database? Select one or more answers.

- 1. It is mandatory for using Spring exception translation mechanism
- 2. May be improve performance when using Hibernate
- 3. Spring optimizes its transaction interceptor
- 4. Provides safeguards with Oracle and some other databases

509. What data access technology is supported by the Spring framework? Select one or more answers.

- 1. JDBC
- 2. NoSQL
- 3. Hibernate
- 4. JPA

510. What is not provided by the JdbcTemplate? Select a unique answer.

- 1. Data source access
- 2. Open/close data source connection
- 3. JDBC exception wrapping into DataAccess Exception
- 4. JDBC statement execution

511.Using JdbcTemplate, what is the Spring provided class you will use for result set parsing and merging rows into a single object? Select a unique answer.

- 1. RowMapper
- 2. RowCallbackHandler
- 3. ResultSetExtractor
- 4. ResultSetMapper
- 512. What configuration is supported by the LocalSessionFactoryBean? Select a unique answer.
- 1. Listing entity classes annoted with @Entity
- 2. Scanning a package to detect annoted entity classes (with @Entity)
- 3. Listing hibernate XML mapping configuration file (.hbm.xml)
- 4. All above

}

- 513. What is/are incorrect statements about XML declaration of the transaction manager bean? Select one or more answers.
- 1. The tx namespace provides JTA transaction manager declaration shortcut syntax
- 2. Id of the bean has to be transactionManager
- 3. Depending the application persistence technology, the HibernateTransactionManager or the DataSourceTransactionManager could be used as bean class
- 4. Default transaction timeout could be given
- 514. 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
```

a. The add() method executes code in a new transaction

- b. The add() method uses the transaction of the transferMoney() method
 c. When calling the add() method, an exception is thrown
 d. Other behavior
- 515. Does Spring provides programmatic transaction management? Select a unique answer.
 - a. Yes with the TransactionTemplate class
 - b. Yes with the TransactionService class
 - c. Yes using the @Transactional bean post processor
 - d. No
- 516. What is the transaction behavior of the PROPAGATION_REQUIRES_NEW mode? Select a unique answer.
- 1. 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.
- 2. 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.
- 3. 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.
- 4. None of the above
- 517. What is the default rollback policy in transaction management?
 - a. Rollback for any Exception
 - b. Rollback for RuntimeException
 - c. Rollback for checked exceptions
 - d. Always commit
- 518. What could not return a Spring MVC controller? Select a single answer.
 - a. An absolute path to the view
 - b. A logical view name
 - c. A new JstlView

- d. void
- e. null value
- 519. Where do you cannot declare Spring MVC controller? Select one or more answers.
- 1. In a Spring application context XML configuration file
- 2. Into the web.xml file of the web application
- 3. Into the java code by using annotations
- 4. Into the JSP pages
- 520. What is the easiest method to write a unit test?
- 1. void displayAccount(HttpServletRequest req, HttpServletResponse resp)

throws ServletException, IOException

2. void displayAccount(HttpServletRequest req, HttpSession Session)

throws ServletException, IOException

3. @RequestMapping("/displayAccount")

String displayAccount(@RequestParam("accountId") intid, Model model)

4. @RequestMapping("/displayAccount")

String displayAccount(@PathVariable("accountId") intid, Model model)

- 521. How could you secure MVC controller with Spring Security? Select a unique answer.
 - a) With the @Secured annotation
 - b) With the @RolesAllowed annotation
 - c) In a XML security configuration file
 - d) All of the above
 - e) None of the above
- 522. What are the possible mechanisms provided by Spring Security to store user details? Select one or more correct answers.
 - a. Database
 - b. JAAS
 - c. LDAP
 - d. Properties file
- 523. What is true about Spring security configuration and the security namespace? Select one or more correct answers.
 - a. The access attribute of the intercept-url tag support both EL and constants together.
 - b. The patterns declared into the intercept-url tag are analyzed from up to bottom. Winning is
 - b) the first that matches.

a. The patterns declared into the intercept-url tag use by default the java regex syntax.
b. Security rules may applied depending request parameter
524. A many-to-one association is the most common kind of association where an object can be associated with
multiple objects.
a)true
b)false
525. what does hibernate do in the listed options?
a) Guaranteed uniqueness of object
b) Transparent persistence
c) Persistence of association and collection
d) Object relational mapping
e) all
526. The bean in the xml file is important for specifying the view resolver and view components
a)true
b)false
527. Spring security framework focuses on which of the following?
a) Providing authorization in java applications
b) Providing authentication in java applications
c) Providing both authorization and authentication in java applicationd) None
a) Ivene
528. Spring provides @Validator annotation and Binding Result class through which we can get the errors
raised by Validator implementation in the controller request handler method.
A)true
B)false
D)Taile
529. spring has which of the ways to minimize XML in spring.config.xml?
a) Using auto wiringb) All
c) Using Auto-Discovery of beans

d) Using java based configuration 530.spring provides a comprehensive set of data binding-aware tags for handling form elements when using JSP and spring web MVC a)true b)false 531.how do you define the scope of a bean a) When defining a <bean> in a spring we can declare the scope of a bean b) It can be defined through scope attribute in the bean definition c) The bean scope attribute must be set to prototype 532. which of the following statements are false? a) The ORM package provides integration layers for popular ORM API's including JPA, JDO, hibernate and **iBatis** b)None c) The core package is the most fundamental part of the framework and provides Ioc and dependency injection features 533. Session Factory allows application to create hibernate session by reading hibernate configuration file hibernate.cfg.xml a)true b)false

534. which of the activities does data filtering do?

- a) Often used for security purpose
- b) Limit the amount of invisible data by modifying query parameters
- c) Users often only have access to certain level of information
- d) Similar to label security in database

535. which of the following define why spring is necessary?

- a) All framework have difficulty to integrate with spring
- b) Easier to test application
- c) Spring framework is unstructured using dependency injection

d) Less complicated than other framework

536. to create new xml configuration extension which of the following are relatively simple steps a)all

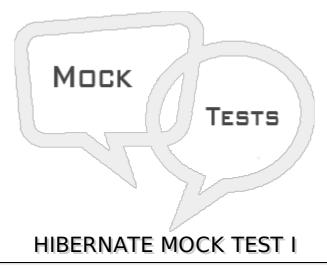
b)coding one or more BeanDefinitionParser implementation

- c)coding a custom NamespaceHandler implementation
- d)authoring an XML schema to describe your custom elements
- e)registering all artefacts with the spring
- 537. which of the following statements are view resolver pattern and works in spring MVC?
- a)it is a J2EE pattern which allows a web application to dynamically choose a view technology
- b) spring MVC framework supplies inbuilt view resolver for selecting view
- c)view resolver holds mapping of different views ,controller return the name of the view which is then passed to the view resolver for a appropriate view
- d)its does not support HTML, JSP, Tapestry, JSF and other controller technologies

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Q 1 - What JDBC stands for?

- A Java DB Connectivity
- B Java Database Connectivity
- C Java Data Bind Connect
- D Java Data Bind Connector

Q 2 - Which of the following is true about JDBC?

- A JDBC stands for Java Database Connectivity.
- B IDBC provides a set of Java API for accessing the relational databases from Java program.
- C JDBC APIs enables Java programs to execute SQL statements and interact with any SQL compliant database.
- D All of the above.

Q 3 - What ORM stands for?

- A Object Relation Map
- B Object Relational Mapping
- C Object Record Mapping
- D None of the above.

Q 4 - Which of the following is true about ORM?

A - ORM stands for Object-Relational Mapping.

B - ORM is a programming technique for converting data between relational databases. C - Both of the above. D - None of the above. Q 5 - Which of the following is not an ORM framework? A - Castor B - Spring DAO C - Hibernate D - NoSOL Q 6 - Which of the following is true about Hibernate? A - Hibernate is an Object-Relational Mapping ORM solution for JAVA. B - Hibernate is an Object-Relational Mapping ORM solution for .NET C - Both of the above. D - None of the above. Q 7 - Which of the following is true about Hibernate? A - Hibernate takes care of mapping Java classes to database tables using XML files and without writing any line of code. B - Hibernate provides simple APIs for storing and retrieving Java objects directly to and from the database. C - Hibernate abstracts away the unfamiliar SQL types and provide us to work around familiar Java Objects. D - All of the above. Q 8 - Which of the following database is not supported by Hibernate? A - DB2/NT B - MySQL C - FoundationDB

Q 9 - Which of the following tools/frameworks provides integration with Hibernate?

D - PostgreSQL

A - XDoclet Spring

D - All of the above.

B-J2EE

C - Maven

Q 10 - Which of the following is not a core component of Hibernate?

A - JDBC

- **B** SessionFactory
- C Session
- D Configuration

Q 11 - Which of the following is not a core component of Hibernate?

A - Transaction

B - Provider

- C Criteria
- D Query

Q 12 - Which of the following is true about configuration component of Hibernate?

- A The Configuration object is the first Hibernate object you create in any Hibernate application.
- B The Configuration object is usually created only once during application initialization.
- C The Configuration object represents a configuration or properties file required by the Hibernate.

D - All of the above.

Q 13 - Which of the following object is used to create SessionFactory object in hibernate?

A - Configuration

- **B** Session
- C SessionFactory
- D Transaction

Q 14 - Which of the following is true about SessionFactory object in hibernate?

- A SessionFactory object configures Hibernate for the application using the supplied configuration file.
- B SessionFactory object allows for a Session object to be instantiated.
- C The SessionFactory is a thread safe object.
- D All of the above.

Q 15 - Which of the following is true about SessionFactory object in hibernate?

A - The SessionFactory is heavyweight object.

- B SessionFactory object is created during application start up and kept for later use.
- C You would need one SessionFactory object per database using a separate configuration file.
- D All of the above.

Q 16 - Which of the following is true about Session object in hibernate?

- A A Session is used to get a physical connection with a database.
- B The Session object is lightweight.
- C Persistent objects are saved and retrieved through a Session object.
- D All of the above.

Q 17 - Is SessionFactory a thread-safe object?

- A true
- B false

Q 18 - Is Session a thread-safe object?

- A true
- B false

Q 19 - Which of the following is true about Transaction object in hibernate?

- A A Transaction represents a unit of work with the database.
- B Transactions in Hibernate are handled by an underlying transaction manager.
- C This is an optional object and Hibernate applications may choose not to use this interface, instead managing transactions in their own application code.
- D All of the above.

Q 20 - Which of the following is true about Query object in hibernate?

- A Query objects Hibernate Query Language HQL string to retrieve data from the database and create objects.
- B Query objects SQL string to retrieve data from the database and create objects.
- C A Query instance is used to bind query parameters, limit the number of results returned by the query, and finally to execute the query.
- D All of the above.

Q 21 - Which of the following is true about hibernate.dialect property in hibernate configuration?

- A This property makes Hibernate generate the appropriate SQL for the chosen database.
- B This property makes Hibernate generate the appropriate java code for the chosen database.

- C Both of the above.

 D None of the above.

 Q 22 Which of the following is true about transient state of a persistent entity?

 A A new instance of a persistent class which is not associated with a Session.
 - '
 - B A new instance of a persistent class which has no representation in the database.
 - C A new instance of a persistent class which has no identifier value.
 - D All of the above.

Q 23 - Which of the following is true about persistent state of a persistent entity?

- A You can make a transient instance persistent by associating it with a Session.
- B A persistent instance has a representation in the database.
- C A persistent instance has an identifier value.
- D All of the above.

Q 24 - Which of the following is true about detached state of a persistent entity?

- A Once we close the Hibernate Session, the persistent instance will become a detached instance.
- B A new instance of a persistent class which is not associated with a Session.
- C You can make a transient instance detached by associating it with a Session.
- D None of the above.

${\bf Q}$ 25 - Session.beginTransaction method begins a unit of work and returns the associated Transaction object.

A - true

B - false

ANSWER SHEET

Question Number	Answer Key
1	В
2	D
3	В
4	С
5	D
6	Α

7	D	
8	С	
9	D	
10	Α	
11	В	
12	D	
13	Α	
14	D	
15	D	
16	D	
17	Α	
18	В	
19	D	
20	D	
21	Α	
22	D	
23	D	
24	Α	
25	Α	

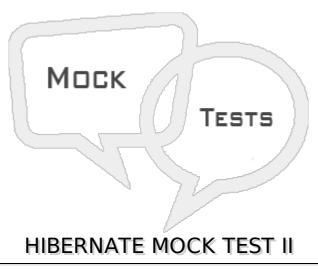
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Q	1	- Session.createCriteria	creates a	a new Criteria	ı instance,	for the giv	en entity/	[,] class,
OI	r a	superclass of an entity	class.					

A - true

B - false

${\bf Q}$ 2 - Session.createQuery creates a new instance of Query for the given HQL query string.

A - true

B - false

Q 3 - Session.createSQLQuery creates a new instance of Query for the given HQL query string.

A - true

B - false

Q 4 - Session.createSQLQuery creates a new instance of Query for the given SQL query string.

A - true

B - false

Q 5 - Which method is used to remove a persistent instance from the datastore?

A - Session.delete

B - Session.remove

C - Session.dei
D - Session.rm
Q 6 - Which method is used to get a persistent instance from the datastore?
A - Session.read
B - Session.get
C - Session.retrieve
D - Session.fetch
Q 7 - Which method is used to re-read the state of the given instance from the underlying database?
A - Session.refresh
B - Session.get
C - Session.reload
D - Session.retrieve
Q 8 - Which method is used to save the state of the given instance from the underlying database?
A - Session.store
B - Session.keep
C - Session.save
D - Session.load
Q 9 - Which method is used to update the state of the given instance from the underlying database?
A - Session.store
B - Session.keep
C - Session.update
D - Session.load
Q 10 - Which method is used to save or update the state of the given instance from the underlying database?
A - Session.saveOrUpdate
B - Session.keep
C - Session.update

D - Session.load

Q 11 - Which of the following is the root node of hbm.xml file?

- A hibernate-mapping
- B hibernate-config
- C class-mapping
- D class-config

Q 12 - Which of the following elements is used to define specific mappings from a Java classes to the database tables?

- A property
- B hibernate-config
- C class
- D class-config

Q 13 - Which of the following is true about <class> element?

- A The <class> elements are used to define specific mappings from a Java classes to the database tables.
- B The Java class name is specified using the name attribute of the class element.
- C The database table name is specified using the table attribute of the class element.
- D All of the above.

Q 14 - Which element of hbm.xml defines maps the unique ID attribute in class to the primary key of the database table?

A - id

- B generator
- C primaryKey
- D None of the above.

Q 15 - Which of the following is true about <id> element?

- A The <id> element maps the unique ID attribute in class to the primary key of the database table.
- B The name attribute of the id element refers to the property in the class.
- C The column attribute of the id element refers to the column in the database table.
- D All of the above.

Q 16 - Which element of hbm.xml automatically generate the primary key values?

A - id

C - primaryKey
D - None of the above.
Q 17 - Which of the following is true about <generator> element?</generator>
A - The <generator> element within the id element is used to automatically generate the primary key values</generator>
B - Set the class attribute of the generator element is set to native to let hibernate pick up either identity, sequence or hilo algorithm to create primary key depending upon the capabilities of the underlying database.
C - Both of the above.
D - None of the above.
Q 18 - Which element of hbm.xml is used to map a Java class property to a column in the database table?
A - id
B - generator
C - property
D - class
Q 19 - Which of the following is true about <pre><pre>cproperty</pre> element?</pre>
A - The <pre></pre>
B - The name attribute of the element refers to the property in the class.
C. The column attribute of the element refers to the column in the database table
C - The column attribute of the element refers to the column in the database table.
D - All of the above.
D - All of the above. Q 20 - Which of the following element maps java.util.Set property in hibernate?
D - All of the above. Q 20 - Which of the following element maps java.util.Set property in hibernate? A - <set></set>
D - All of the above. Q 20 - Which of the following element maps java.util.Set property in hibernate? A - <set> B - E - B -</set>
Q 20 - Which of the following element maps java.util.Set property in hibernate? A - <set> B - C - <bag></bag></set>
D - All of the above. Q 20 - Which of the following element maps java.util.Set property in hibernate? A - <set> B - E -</set>
Q 20 - Which of the following element maps java.util.Set property in hibernate? A - <set> B - C - <bag></bag></set>
Q 20 - Which of the following element maps java.util.Set property in hibernate? A - <set> B - C - <bag> D - <map></map></bag></set>

B - generator

C - <bag>

D - <map></map>		
Q 22 - Which of the	e following ele	ment maps java.util.Collection property in hibernate?
A - <set></set>		
B - <list></list>		
C - <bag></bag>		
D - <map></map>		
Q 23 - Which of the	e following ele	ment maps java.util.Map property in hibernate?
A - <set></set>		
B - <list></list>		
C - <bag></bag>		
D - <map></map>		
Q 24 - Which of the hibernate?	e following ele	ment maps java.util.SortedMap property in
A - <set></set>		
B - <list></list>		
C - <bag></bag>		
D - <map></map>		
Q 25 - Which of the in hibernate?	e following ele	ment is used to represent many-to-one relationship
A - <many-to-one></many-to-one>		
B - <many-one></many-one>		
C - <manytoone></manytoone>		
D - None of the above	е	
		ANSWER SHEET
Question Number	Answer Key	
1	Α	
2	Α	
3	В	
4	Α	
5	Α	

6	В
7	A
8	C
9	C
10	A
11	A
12	C
13	D
14	A
15	D
16	В
17	C
18	C
19	D
20	A
21	В
22	C
23	D
24	D
25	A

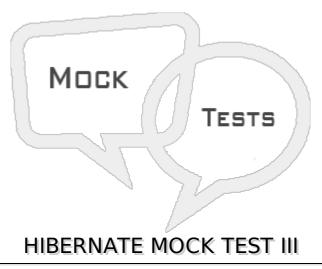
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Q 1 - Which of the following element is used to represent one-to-one relationship in hibernate?

- A <many-to-one>
- B <many-one>
- C < Many To One >
- D None of the above.

Q 2 - Which of the following element is used to represent one-to-many relationship in hibernate?

- A <one-to-many>
- B <one-many>
- C < OneToMany>
- D None of the above.

Q 3 - Which of the following element is used to represent many-to-many relationship in hibernate?

- A <many-to-many>
- B <many-many>
- C < Many To Many >
- D None of the above.

Q 4 - Which of the following element is used to represent one-to-many relationship in hibernate?

- A <one-to-many>
 B <one-many>
 - C <OneToMany>
 - D None of the above.

Q 5 - Which of the following situation represents many-to-many relationship?

- A An employee can have multiple certificates and same certificate can be conferred to many employees.
- B An employee can have multiple certificates.
- C A certificate can be conferred to many employees.
- D All of the above.

Q 6 - What is the difference between save and persist methods of session object?

- A There is no difference.
- B save saves the object and returns status whereas persist stores status in different variable.
- C save saves the object and returns the id of the instance whereas persist do not return anything after saving the instance.
- D None of the above.

Q 7 - What is the difference between get and load methods of session object?

- A get returns null if no data is present where as load throws ObjectNotFoundException exception in such case.
- B get always hits the database whereas load method doesn't hit the database.
- C get returns actual object whereas load returns proxy object.
- D All of the above.

Q 8 - What is lazy loading?

- A Lazy loading is a technique in which objects are loaded on demand basis.
- B Lazy loading is a technique in which objects are persisted on demand basis.
- C Both of the above.
- D None of the above.

Q 9 - What is value of lazy loading by default?

- A true
- B false

Q 10 - Child objects are not loaded when parent is loaded/populated from database. What this technique is called?

- A Eager Loading
- B Lazy Loading
- C Request based Loading
- D None of the above.

Q 11 - What HQL stands for?

- A Hibernate Query Language
- B High Query Language
- C Hybrid Query Language
- D None of the above.

Q 12 - Which of the following is true about HQL?

- A HQL takes java objects in the same way as SQL takes tables.
- B HQL is a Object Oriented Query language
- C HQL is database independent.
- D All of the above.

Q 13 - What is first level cache in hibernate?

- A The first-level cache is the Session based cache.
- B The first-level cache is the SessionFactory based cache.
- C Both of the above.
- D None of the above.

Q 14 - Whis of the following is true about first level cache in hibernate?

- A The first-level cache is the Session cache.
- B The first-level cache is a mandatory cache through which all requests must pass.
- C The Session object keeps an object under its own power before committing it to the database.
- D All of the above.

Q 15 - What is second level cache in hibernate?

- A The second-level cache is the SessionFactory based cache and is mainly responsible for caching objects across sessions.
- B The second-level cache is the Session based cache.

Q 16 - Whis of the following is true about second level cache in hibernate? A - The second-level cache is the SessionFactory based cache. B - The second-level cache can be configured on a per-class and per-collection basis. C - The second-level cache is mainly responsible for caching objects across sessions. D - All of the above. Q 17 - Is first level caching mandatory in hibernate? A - true B - false Q 18 - Is second level caching mandatory in hibernate? A - true B - false Q 19 - Is query level caching mandatory in hibernate? A - true B - false Q 20 - What is Query level cache in hibernate? A - The query-level cache is cache for query resultsets that integrates closely with the secondlevel cache. B - The query-level cache is the Session based cache. C - Both of the above. D - None of the above. Q 21 - Which of the following is true about query level cache in hibernate? A - Query level cache is an optional feature. B - Query level cache requires two additional physical cache regions that hold the cached guery results and the timestamps when a table was last updated. C - Query level cache is only useful for queries that are run frequently with the same parameters. D - All of the above.

Q 22 - Which of the following is a concurrency strategies in hibernate?

C - Both of the above.

D - None of the above.

A - Transactional

B - Read-write

C - Nonstrict-read-write.

Q 23 - When a Transactional concurrency strategy is to be used?

- A Use it for reference data only.
- B Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions.
- C Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern.
- D None of the above.

D - All of the above.

Q 24 - When a Read-write concurrency strategy is to be used?

- A Use it for reference data only.
- B Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions.
- C Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern.
- D None of the above.

Q 25 - When a Nonstrict-read-write concurrency strategy is to be used?

- A Use it for reference data only.
- B Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions.
- C Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern.
- D None of the above.

ANSWER SHEET

Question Number	Answer Key
1	Α
2	Α
3	Α
4	Α
5	Α
6	С

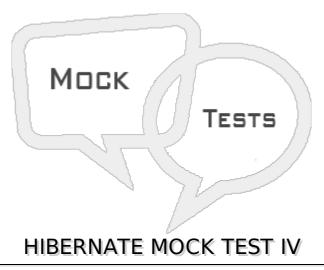
7	D
8	A
9	A
10	В
11	A
12	D
13	A
14	D
15	A
16	D
17	A
18	В
19	В
20	A
21	D
22	D
23	В
24	В
25	С

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Q 1 - When a Read-only concurrency strategy is to be used?

- A Use it for reference data only.
- B Use this strategy for read-mostly data where it is critical to prevent stale data in concurrent transactions.
- C Use this strategy if data hardly ever changes and a small likelihood of stale data is not of critical concern.
- D None of the above.

Q 2 - Which of the following is true with respect to ORM vs JDBC?

- A ORM system lets business code access objects rather than DB tables.
- B ORM system hides details of SQL queries from OO logic.
- C ORM system helps in Transaction management and automatic key generation.
- D All of the above.

Q 3 - Which of the following is true about hibernate?

- A Hibernate does not require an application server to operate.
- B Hibernate manipulates Complex associations of objects of your database.
- C Hibernate minimize database access with smart fetching strategies.
- D All of the above.

Q 4 - Which of the following database is not supported by Hibernate?

A - Oracle

B - Microsoft SQL Server Database
C - FoundationDB
D - Informix Dynamic Server
Q 5 - Which of the following database is supported by Hibernate?
A - DB2/NT
B - PostgreSQL
C - Sybase SQL Server
D - All of the above
O.C. Which of the fellowing is a company mant of Hibermate 2
Q 6 - Which of the following is a core component of Hibernate?
A - Transaction
B - SessionFactory C - Session
D - All of the above
0.7 Configuration object is used to greate SessionEastern object in hibernate
Q 7 - Configuration object is used to create SessionFactory object in hibernate.
A - true B - false
D - Taise
Q 8 - The SessionFactory is heavyweight object.
A - false
B - true
Q 9 - You would need one SessionFactory object per database using a separate configuration file.
A - false
B - true
Q 10 - A Session is used to get a physical connection with a database.
A - true
B - false
Q 11 - The Session object is lightweight.
A - false

Q 12 - Persistent objects are saved and retrieved through a Session object.

A - false

B - true

Q 13 - Which of the following is true about hibernate annotations?

- A Hibernate Annotations is the powerful way to provide the metadata for the Object and Relational Table mapping.
- B All the metadata is clubbed into the POJO java file along with the code this helps the user to understand the table structure and POJO simultaneously during the development.
- C Both of the above.
- D None of the above.

Q 14 - Which of the following is true about @ld annotation?

- A Hibernate detects that the @Id annotation is on a field.
- B Hibernate assumes that it should access properties on an object directly through fields at runtime.
- C Both of the above.
- D None of the above.

Q 15 - Which of the following is true about @Entity annotation?

- A @Entity annotation marks a class as an entity bean.
- B Class marked with @Entity annotation must have a no-argument constructor that is visible with at least protected scope.
- C Both of the above.
- D None of the above.

Q 16 - Which of the following is true about @Table annotation?

- A The @Table annotation allows to specify the details of the table that will be used to persist the entity in the database.
- B The @Table annotation allows to override the name of the table, its catalogue, and its schema, and enforce unique constraints on columns in the table.
- C Both of the above.
- D None of the above.

Q 17 - Which of the following is true about @GeneratedValue annotation?

A - @GeneratedValue annotation takes two parameters strategy and generator.
B - @GeneratedValue annotation provides the primary key generation strategy to be used.
C - Both of the above.
D - None of the above.

Q 18 - Which of the following is true about @Column annotation?

- A The @Column annotation is used to specify the details of the column to which a field or property will be mapped.
- B The @Column annotation is applied on a class.
- C Both of the above.
- D None of the above.

Q 19 - name attribute of @Column annotation permits the name of the column to be explicitly specified.

A - true

B - false

Q 20 - length attribute of @Column annotation permits the size of the column used to map a value particularly for a String value.

A - false

B - true

Q 21 - nullable attribute of @Column annotation permits the column to be marked NOT NULL when the schema is generated.

A - true

B - false

Q 22 - Which of the following is true about HQL?

- A Hibernate Query Language HQL is an object-oriented query language.
- B Instead of operating on tables and columns, HQL works with persistent objects and their properties.
- C Both of the above.
- D None of the above.

Q 23 - Which of the following is true about HQL?

A - HQL queries are translated by Hibernate into conventional SQL queries which in turns perform action on database.

- B The AS clause can be used to assign aliases to the classes in HQL queries.
- C Both of the above.
- D None of the above.

Q 24 - Which of the following is true about HQL?

- A Hibernate supports named parameters in its HQL queries.
- B HQL supports a range of aggregate methods, similar to SQL.
- C Both of the above.
- D None of the above.

Q 25 - Which of the following is true about INSERT CLAUSE in HQL?

- A HQL supports INSERT INTO clause only where records can be inserted from one object to another object.
- B HQL supports INSERT INTO clause without any restriction.
- C Both of the above.
- D None of the above.

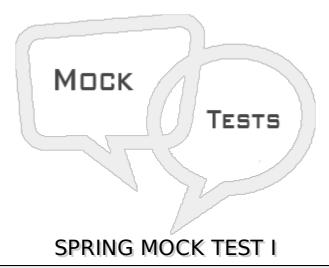
ANSWER SHEET

Question Number	Answer Key
1	С
2	D
3	D
4	С
5	D
6	D
7	Α
8	В
9	В
10	Α
11	В
12	В
13	С
14	С
15	С
16	С

17	С
18	A
19	A
20	В
21	A
22	C
23	C
24	C
25	A

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This section presents you various set of Mock Tests related to **Spring Framework**. You can download these sample mock tests at your local machine and solve offline at your convenience. Every mock test is supplied with a mock test key to let you verify the final score and grade yourself.



Q 1 - What is spring?

- A Spring is an open source development framework for enterprise Java.
- B Spring is a proprietary framework.
- C Spring is a development framework for .Net applications.
- D Spring is a development framework for PHP based applications.

Q 2 - Which of the following is correct assertion about spring?

- A Spring enables developers to develop enterprise-class applications using POJOs.
- B Spring is organized in a modular fashion.
- C Testing an application written with spring is simple because environment-dependent code is moved into this framework.
- D All of above.

Q 3 - What is Dependency Injection?

- A It is a design pattern which implements Inversion of Control for software applications.
- B It is one of the spring module.
- C It is a technique to get dependencies of any project.
- D It is used to promote tight coupling in code.

Q 4 - Which of the following is correct about dependency injection?

A - It helps in decoupling application objects from each other.

- B It helps in deciding the dependencies of objects.
- C It stores objects states in database.
- D It stores object states in file system.

Q 5 - What AOP stands for?

- A Aspect Oriented Programming
- **B** Any Object Programming
- C Asset Oriented Programming
- D Asset Oriented Protocol

Q 6 - 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.
- C Logging is one of the examples of cross cutting concerns.
- D All of the above.

Q 7 - Which are the modules of core container?

- A Beans, Core, Context, SpEL
- B Core, Context, ORM, Web
- C Core, Context, Aspects, Test
- D Bean, Core, Context, Test

Q 8 - Which are the modules of Data Access/ integration layer?

A - JDBC, ORM, OXM, JMS, Transactions

- B JDBC, ORM, OXM, JMS
- C JDBC, ORM, Web, Beans
- D JDBC, ORM, OXM, JMS

Q 9 - Which are the modules of Web layer?

- A WebSocket, Servlet, Web, Portlet
- B WebSocket, Servlet, Web-MVC, Web
- C HTML, JSP, WEB, Portlet
- D HTML, Servlet, WEB, Portlet

Q 10 - Which of the statement is not correct?

- A Core and beans modules provide the fundamental parts of the framework, including Dependency Injection feature.
- B The SpEL module provides a powerful Expression Language for querying and manipulating an object graph at runtime.
- C Aspects module provides integration with AspectJ.
- D None of the above.

Q 11 - Which of the statement is correct?

- A The JDBC module provides a JDBC-abstraction layer that removes the need to do tedious JDBC related coding.
- B The ORM module provides integration layers for popular object-relational mapping APIs, including JPA, JDO, Hibernate, and iBatis.
- C The Java Messaging Service JMS module contains features for producing and consuming messages.
- D All of the above.

Q 12 - Which of the statement is correct?

- A The AOP module provides aspect-oriented programming implementation allowing you to define method-interceptors and pointcuts to cleanly decouple code that implements functionality that should be separated.
- B The Aspects module provides integration with AspectJ Which is again a powerful and mature aspect oriented programming *AOP* framework.
- C The Instrumentation module provides class instrumentation support and class loader implementations to be used in certain application servers.
- D All of the above.

Q 13 - What types of Dependency injection does spring supports?

- A Constructor based, Setter based
- B Constructor based, Setter based, Getter Based
- C Setter based, Getter based, Properties based
- D Constructor based, Setter based, Properties based

Q 14 - Which are the IoC containers in Spring?

- A BeanFactory, ApplicationContext
- B BeanFactory, ApplicationContext, IocContextFactory
- C BeanFactory, BeanContext, locContextFactory
- D BeanFactory, ApplicationContext, BeanContext

Q 15 - Which is the correct implementation class of BeanFactory?

- A XmlBeanFactory
- B ClassPathBeanFactory
- C FileSystemBeanFactory
- D AdvancedBeanFactory

Q 16 - Which are the correct implementation classes of ApplicationContext?

- A FileSystemXmlApplicationContext, ClassPathXmlApplicationContext, WebXmlApplicationContext
- B FileSystemApplicationContext, ClassPathApplicationContext, WebApplicationContext
- C AdvancedApplicationContext, FileApplicationContext
- D FileSystemApplicationContext, ClassPathApplicationContext

Q 17 - Which of the following stands true for spring beans?

- A Spring beans are managed by the Spring IoC container.
- B Spring beans are instantiated, assembled, and otherwise managed by a Spring IoC container.
- C Spring beans are simple POJOs.
- D All of the above.

Q 18 - Which is the way to provide configuration metadata to spring?

- A XML Based configuration file.
- B Annotation based configuration.
- C Java based configuration.
- D All of the above.

Q 19 - What is bean scope?

- A Bean scope forces Spring to produce a new bean instance as per the scope defined.
- B Bean scope defines the accessibility of bean in a java class.
- C Bean scope defines the accessibility of bean in a java package.
- D Bean scope defines the accessibility of bean in a web application.

Q 20 - What is singleton scope?

- A This scopes the bean definition to a single instance per Spring IoC container.
- B This scopes the bean definition to a single instance per HTTP Request.
- C This scopes the bean definition to a single instance per HTTP Session.
- D This scopes the bean definition to a single instance per HTTP Application/ Global session.

Q 21 - What is prototype scope?

- A This scopes a single bean definition to have any number of object instances.
- B This scopes the bean definition to a single instance per HTTP Request.
- C This scopes the bean definition to a single instance per HTTP Session.
- D This scopes the bean definition to a single instance per HTTP Application/ Global session.

Q 22 - What is request scope?

- A This scopes a bean definition to an HTTP request.
- B This scopes the bean definition to Spring IoC container.
- C This scopes the bean definition to HTTP Session.
- D This scopes the bean definition HTTP Application/ Global session.

Q 23 - What is session scope?

- A This scopes a bean definition to an HTTP session.
- B This scopes the bean definition to Spring IoC container.
- C This scopes the bean definition to HTTP request.
- D This scopes the bean definition to HTTP Application/ Global session.

Q 24 - 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.
- C This scopes the bean definition to HTTP request.
- D This scopes the bean definition to HTTP Session.

Q 25 - What is default scope of bean in Spring framework?

A - singleton

- B prototype
- C request
- D session

Q 26 - How can you inject Java Collection in Spring?

- A Using list, set, map or props tag.
- B Using lit, set, map or collection tag.
- C Using list, set, props or collection tag.

D - Using list, collection, map or props tag.

Q 27 - What is true about < list > collection configuration elements?

- A This helps in wiring a list of values, allowing duplicates.
- B This helps in wiring a list of values but without any duplicates.
- C This can be used to inject a collection of name-value pairs where name and value can be of any type.
- D This can be used to inject a collection of name-value pairs where the name and value are both Strings.

Q 28 - What is true about <set> collection configuration elements?

- A This helps in wiring a list of values, allowing duplicates.
- B This helps in wiring a list of values but without any duplicates.
- C This can be used to inject a collection of name-value pairs where name and value can be of any type.
- D This can be used to inject a collection of name-value pairs where the name and value are both Strings.

Q 29 - What is true about <map> collection configuration elements?

- A This helps in wiring a list of values, allowing duplicates.
- B This helps in wiring a list of values but without any duplicates.
- C This can be used to inject a collection of name-value pairs where name and value can be of any type.
- D This tag is not supported.

Q 30 - What is true about collection configuration elements?

- A This helps in wiring a list of values, allowing duplicates.
- B This helps in wiring a list of values but without any duplicates.
- C This can be used to inject a collection of name-value pairs where name and value can be of any type.
- D This can be used to inject a collection of name-value pairs where the name and value are both Strings.

Q 31 - What is bean autowiring?

- A Autowiring lets Spring resolve collaborators otherbeans for your bean by inspecting the contents of the BeanFactory without using <constructor-arg> and and and elements.
- B Autowiring injects values in spring beans.
- C Autowiring injects one bean into another.

D - Autowiring helps in wiring a list of values, allowing duplicates.

Q 32 - Which are the different modes of autowiring?

- A no, byName, byType, constructor, autodetect
- B no, byName, byType, constructor, autocorrect
- C byName, byContent, constructor, autodetect
- D byName, byContent, setter, autodetect

Q 33 - What is no mode of autowiring?

- A Default setting which means no autowiring and you should use explicit bean reference for wiring.
- B Autowiring by property name.
- C Spring first tries to wire using autowire by constructor, if it does not work, Spring tries to autowire by byType.
- D Similar to byType, but type applies to constructor arguments.

Q 34 - What is byName mode of autowiring?

- A Default setting which means no autowiring and you should use explicit bean reference for wiring.
- 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.
- C Spring first tries to wire using autowire by constructor, if it does not work, Spring tries to autowire by byType.
- D Similar to byType, but type applies to constructor arguments.

Q 35 - What is byType mode of autowiring?

- A Default setting which meas no autowiring and you should use explicit bean reference for wiring.
- 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.
- C Spring first tries to wire using autowire by constructor, if it does not work, Spring tries to autowire by byType.
- 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.

Q 36 - What is constructor mode of autowiring?

- A Autowiring by property name. Spring tries to match and wire its properties with the beans defined by the same names in the configuration file.
- B Spring first tries to wire using autowire by constructor, if it does not work, Spring tries to autowire by byType.

- C 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.
- D Similar to byType, but type applies to constructor arguments. If there is not exactly one bean of the constructor argument type in the container, a fatal error is raised.

Q 37 - What is autodetect mode of autowiring?

- A Similar to byType, but type applies to constructor arguments. If there is not exactly one bean of the constructor argument type in the container, a fatal error is raised.
- 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.
- C Spring first tries to wire using autowire by constructor, if it does not work, Spring tries to autowire by byType.
- 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.

Q 38

Can you inject null and empty string values in Spring?

A - Yes

B - No

Q 39 - How do you turn on annotation wiring?

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

Q 40 - What does @Required annotation mean?

- A This annotation indicates that bean property must be populated by the user.
- B This annotation indicates that bean property is required while saving the bean data to database.
- 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.

Q 41 - What is true about @Autowired annotation?

- A The @Autowired annotation can be used to autowire bean on the setter method.
- B This annotation provides more fine-grained control over where and how autowiring should be accomplished.
- C The @Autowired annotation can be used to autowire bean on the methods with arbitrary

names and/or multiple arguments.

D - All of above.

Q 42 - What is ContextRefreshedEvent event?

- A This event is published when the Servlet Context is either initialized or refreshed.
- B This event is published when the HTTP Request is received.
- C This event is published when the HTTP Response is returned.
- D This event is published when the ApplicationContext is either initialized or refreshed.

Q 43 - What is ContextStartedEvent event?

- A This event is published when the Servlet Context is either initialized or refreshed.
- B This event is published when the HTTP Request is received.
- C This event is published when the ApplicationContext is started using the start method on the ConfigurableApplicationContext interface.
- D This event is published when the HTTP Response is returned.

Q 44 - What is ContextStoppedEvent event?

- A This event is published when the Servlet Context is either initialized or refreshed.
- B This event is published when the ApplicationContext is stopped using the stop method on the ConfigurableApplicationContext interface.
- C This event is published when the HTTP Request is received.
- D This event is published when the HTTP Response is returned.

Q 45 - What is ContextClosedEvent event?

- A This event is published when the Servlet Context is either initialized or refreshed.
- B This event is published when the HTTP Request is received.
- C This event is published when the HTTP Response is returned.
- D This event is published when the ApplicationContext is closed using the close method on the ConfigurableApplicationContext interface.

Q 46 - What is RequestHandledEvent:event?

- A This event is published when the Servlet Context is either initialized or refreshed.
- B This event is published when the HTTP Request is received.
- C This event is published when the HTTP session is initialized or refreshed.
- D This event is published when the HTTP Request is serviced.

Q 47 - What is aspect?

- A Aspect is a way to do the dependency injection.
- B A module which has a set of APIs providing cross-cutting requirements.
- C Aspect is used to log information of application.
- D Aspect represents properties of spring based application.

Q 48 - What is Join point?

- A This represents a point in your application which joins two objects.
- B This represents a point in your object where you join values.
- C This represents a point in your object where you join injected values.
- D This represents a point in your application where you can plug-in AOP aspect.

Q 49 - What is Advice?

- A This is the way to instruct object to behave in certain manner.
- B This is used to inject values in objects.
- C This is the actual action to be taken either before or after the method execution.
- D This is not invoked during program execution by Spring AOP framework.

Q 50 - What is Pointcut?

- A This represents a point in your application where you can plug-in AOP aspect.
- B This is a set of one or more joinpoints where an advice should be executed.
- C This is used to inject values in objects.
- D This is invoked during program execution by Spring AOP framework.

ANSWER SHEET

Answer Key
Α
D
Α
Α
Α
Α
Α
Α

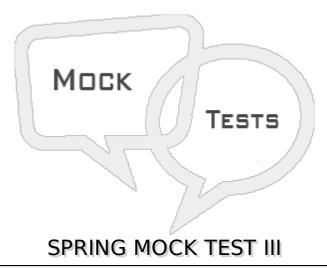
9	A
10	D
11	D
12	D
13	A
14	A
15	A
16	A
17	D
18	D
19	A
20	A
21	A
22	A
23	A
24	A
25	A
26	A
27	A
28	В
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32	A
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34	В
35	D
36	D
37	С
38	A
39	D
40	С
41	В
42	D
43	С

44	В	
45	D	
46	С	
47	В	
48	D	
49	С	
50	В	

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This section presents you various set of Mock Tests related to **Spring Framework**. You can download these sample mock tests at your local machine and solve offline at your convenience. Every mock test is supplied with a mock test key to let you verify the final score and grade yourself.



Q 1 - What is Introduction?

- A An introduction represents a point in your application where you can plug-in AOP aspect.
- B This is used to inject values in objects.
- C This is not invoked during program execution by Spring AOP framework.
- D An introduction allows you to add new methods or attributes to existing classes.

Q 2 - What is Target object?

- A A represents a object in your application where you can plug-in AOP aspect.
- B The object being advised by one or more aspects, this object will always be a proxy object, also referred to as the advised object.
- C This is used to inject values in objects.
- D This is not invoked during program execution by Spring AOP framework.

Q 3 - What is Weaving?

- A Weaving is the process of injecting values in objects to create an advised object.
- B Weaving is the process of linking aspects with other application types or objects to create an advised object.
- C This is used to inject values in objects.
- D Weaving is used to check object dependencies.

Q 4 - What are the different points where weaving can be applied?

A - Compile time, load time

- B Compile time, run time
- C Run time
- D Compile time, load Time, Run time

Q 5 - What are the types of advice?

- A then, after, after-returning, after-throwing, around
- B When, after, after-returning, around
- C Where, after, after-returning, after-throwing, around
- D Before, after, after-returning, after-throwing, around

Q 6 - How before advice works?

- A Run advice before a class loads.
- B Run advice before a method execution.
- C Run advice before http response is to be returned.
- D Run advice before http request is to be processed.

Q 7 - How after-returning advice works?

- A Run advice after a class loads only if class loads successfully.
- B Run advice after a method execution only if method completes successfully.
- C Run advice after http response is returned only if http response is success.
- D Run advice after http request is processed with no exception.

Q 8 - How after-throwing advice works?

- A Run advice after a method execution only if method exits by throwing an exception.
- B Run advice after a class loads only if class throws exception during load time.
- C Run advice after http response is returned with error status.
- D Run advice after http request is processed and an exception occurred.

Q 9 - How around advice works?

- A Run advice before and after the advised method is invoked.
- B Run advice before and after a class is loaded.
- C Run advice before and after http response is returned.
- D Run advice before and after http request is processed.

Q 10 - Which of the following aspect implementation spring supports?

- A XML Schema based aspect implementation
- B @AspectJ based aspect implementation

C - Both of above.

D - None of above.

Q 11 - What are the types of the transaction management Spring supports?

- A Programmatic transaction management
- B Declarative transaction management

C - Both of above.

D - None of above.

Q 12 - What is Spring MVC framework?

- A Spring MVC framework is Model-Value-Class architecture and used to bind model data with values.
- 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.
- D Spring MVC framework is used for AOP for Web Applications.

Q 13 - What is @Controller annotation?

- A The @Controller annotation indicates that a particular class serves the role of a controller.
- B The @Controller annotation indicates how to control the transaction management.
- C The @Controller annotation indicates how to control the dependency injection.
- D The @Controller annotation indicates how to control the aspect programming.

Q 14 - What are the ways to access Hibernate by using Spring?

- A Inversion of Control with a Hibernate Template and Callback.
- B Extending HibernateDAOSupport and Applying an AOP Interceptor node.

C - Both of above.

D - None of above.

Q 15 - Which ORM Spring supports?

- A Hibernate
- B iBatis
- C JPA

D - All of above.
E - None of above.
Q 16 - Which of the following database is not supported using jdbcTemplate?
A - MySql
B - PostgresSql
C - NoSql
D - Oracle
Q 17 - How to get object of a service in spring framework?
A - Using new keyword
B - Using dependency injection
Q 18 - Which of the following is part of Data Access layer in Spring framework?
A - Beans
B - Aspects
C - JMS
D - Context
Q 19 - How to use ref keyword in beans.
xml?
A - Using setter method only.
B - Using constructor argument only.
C - Using setter method and constructor argument both.
D - None of the above.
Q 20 - Core container has AOP as one of its module.
A - True
B - False
Q 21 - SpEL is part of core container.
A - False
B - True

Q 22 - Which class acts as IoC Container?
A - ServletContext
B - DispatcherServlet
C - ApplicationContext
D - None of the above
Q 23 - What stands true for spring framework?
A - Spring framework is a light weight framework.
B - Spring framework is a heavy weight framework.
Q 24 - Expression Language/ SpEL was introduced in which version of spring framework.
A - 1.0
B - 2.0
C - 3.0
D - 4.0
Q 25 - Can we integrate Struts with Spring.
A - Yes
B - No
Q 26 - By default a bean is lazily loaded.
A - True
B - False
Q 27 - By default a bean is eagerly loaded.
A - False
B - True
Q 28 - If a bean is scoped to HTTP request, scope is
A - session
B - global-session
C - prototype
D - request

Q 29 - If a bean is created once per loc Container, scope is
A - singleton
B - global-session
C - prototype
D - request
Q 30 - Thread scoped bean is introduced in which version of spring framework.
A - 1.0
B - 2.0
C - 3.0
D - 4.0
Q 31 - If a bean can be created any number of times, scope is
A - session
B - global-session
C - prototype
D - request
Q 32 - What is the scope of stateless bean?
A - global-session
B - singleton
C - prototype
D - request
Q 33 - What is the scope of stateful bean?
A - session
B - global-session
C - prototype
D - request
Q 34 - If a bean is scoped to HTTP session, scope is
A - global-session
B - session
C - prototype
D - request

Q 35 - How to handle shut down of IoC container?

- A Using shutdownHook
- B Using shutdownHandler
- C Using registerHook
- D Using registerShutdownHook

Q 36 - How bean life cycle can be controlled?

- A Using init only
- B Using InitializingBean class only
- C Using DisposableBean class only
- D Using All of above

Q 37 - What is the scope of bean in portlet context?

- A session
- B global-session
- C prototype
- D request

Q 38 - How after advice works?

- A Run advice after a method execution regardless of its outcome.
- B Run advice after a class loads.
- C Run advice after http response is returned.
- D Run advice after http request is processed.

Q 39 - Which class is used to map a database row to a java object in spring?

- A ResultSet
- B RowMapper
- C RowSetMapper
- D ResultSetMapper

Q 40

A bean must have id attribute in beans configuration file.

A - True

B - False

Q 41 - Which of the following class can be used to execute Sql queries in spring?

B - JDBCHelper

- A JdbcTemplate
- C DBHelper
- D DBTemplate

Q 42 - Which of the following class can be used to call Stored Procedures in spring?

- A SPHelper
- B JdbcTemplateCall
- C JdbcTemplate
- D SimpleJdbcCall

Q 43 - What is a DispatcherServlet?

- A DispatcherServlet is used for transaction management.
- B DispatcherServlet is used for AOP.
- C DispatcherServlet handles all the HTTP requests and responses.
- D DispatcherServlet is used for Dependency injection.

Q 44 - What is ACID in transactional management?

- A Accurate, Controlled, Isolation, Durability
- B Atomicity, Consistency, Independent, Done
- C Atomicity, Consistency, Isolation, Durability
- D Accurate, Controlled, Independent, Done

Q 45 - Where do you define DispatcherServlet?

- A In Beans configuration file.
- B Web.xml file
- C Meta-inf/dispatcher.xml
- D Web-inf/ dispatcher.xml

Q 46 - What is true about BeanPostProcessor?

- A It is a concrete class.
- B It is an interface.

C - It is an abstract cla	ass.	
D - None of the above	Э.	
Q 47 - What BeanPe	ostProcessor (does?
A - It processes beans	s once a bean is	s initialized.
B - It defines callback dependency-resolution		you can implement to provide your own instantiation logic,
C - It processes beans	s once a bean is	s loaded.
D - It processes beans	s once a bean e	exits.
Q 48 - Can be bean	be configured	d to have an inner bean?
A - True		
B - False		
Q 49 - Can we injec	t value and re	ef both together in a bean?
A - True		
B - False		
Q 50 - Following cl	ass can be ext	tended to create custom event in spring.
A - SpringEvent		
B - Event		
C - ApplicationEvent		
D - None of above		
		ANSWER SHEET
Question Number	Answer Key	
1	D	
2	В	
3	В	
4	D	
5	D	
6	В	
7	В .	
Ω	Λ	

3 A 11 C 12 B 13 A 14 C 15 D 16 C 17 B 18 C 19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D 43 C	9	A
11 C 12 B 13 A 14 C 15 D 16 C 17 B 18 C 19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
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13 A 14 C 15 D 16 C 17 B 18 C 19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
14 C 15 D 16 C 17 B 18 C 19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
15 D 16 C 17 B 18 C 19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
16 C 17 B 18 C 19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
17 B 18 C 19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
18 C 19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D	31	
34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D	32	
35D36D37B38A39B40B41A42D	33	C
36D37B38A39B40B41A42D	34	
37B38A39B40B41A42D	35	D
38 A 39 B 40 B 41 A 42 D	36	D
39B40B41A42D	37	В
 40 41 42 D 	38	A
41 A A D	39	В
42 D	40	В
	41	A
43 C	42	D
	43	С

44	С
45	В
46	В
47	В
48	Α
49	Α
50	С

Loading [MathJax]/jax/output/HTML-CSS/jax.js

1. The central artifact in spring javaConfig is the @Configuration-annotated class. State true or False.
ans:true
2. What are the modules of spring web flow?
a.Spring-faces
b.Spring-bundling
c.Spring-container
d.Spring-webflow
3.XML mapping file offers which of the following?
4.In spring MVC each tag provides support to the set of attributes of its corresponding HTML tag counterpart making the tags familiar & intuitive to use
State true or False. true
5. Which of the following are mandatory rules to create validation for a normal employee table?
a.The "empNum" cant be empty
b."Name" cant be empty
c.The "empNum" cant be less than 1
d.All of the option
6. Which of the following allows as to add a new method or attributes to existing classes?
a.Introduction
b.Proxy
c.Weaving
d.Auto call

7. Given the following Spring configuration file, what is the correct answer:

<pre><bean class="com.spring.service.MyServiceImpl"></bean></pre>
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
<pre><bean class="com.spring.repository.JpaDao"></bean></pre>
a. The first declared bean MyServiceImpl is missing an id must be named myService
b. The second declared bean JpaDao is missing an id must be named jpaDao
c. Answers 1 and 2 are both rights
d. Answers 1 and 2 are both wrong
8. Which of the following are the best practices for writing spring XML configuration?
a.Rarely use classpath
b.Mentioning version numbers in schema reference
c.Using consistent naming conventions
d.Reuse bean definitions as much as possible
best practices:
1) Add a header comment to each configuration file
2) Use consistent naming conventions
3) No version numbers in schema references
4) Prefer setter injection over constructor injection
5) Prefer type over index for constructor argument matching
6) Use shortcut forms over expanded forms
7) Reuse bean definitions as much as possible
8) Always use ids as bean identifiers

9) Try to avoid autowiring

10) Always use classpath prefix

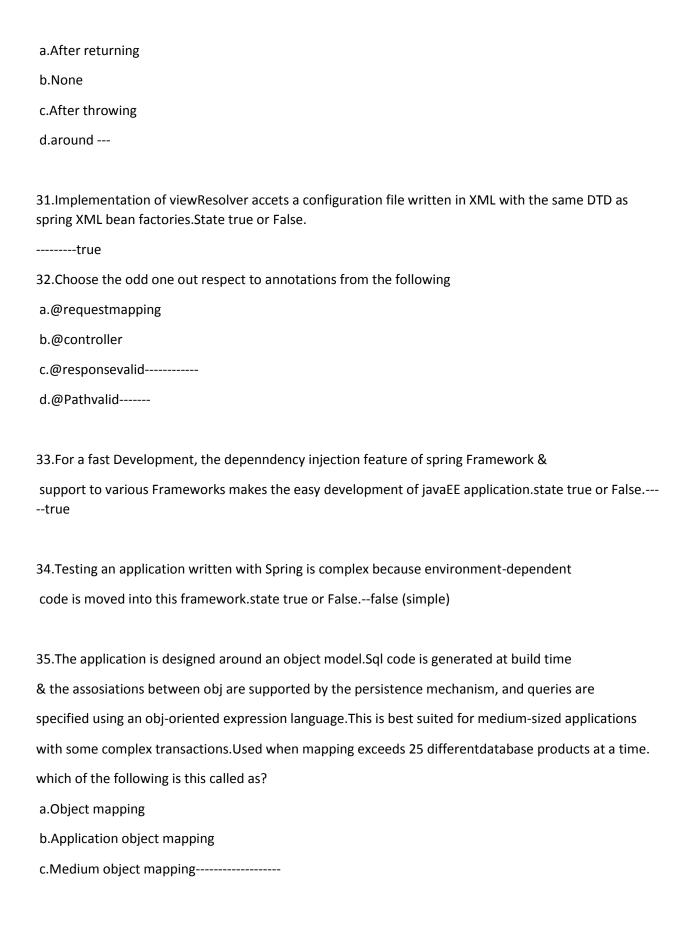
11) Always externalize properties
12) Use dependency-check at the development phase
13) Do not abuse/overuse dependency injection
9. Spring MVC provides better way to seperate which of the following?
a.Presentation
b.Tools
c.Data Access
d.Bussiness Logic
10.We can use index and type attribute together
State true or Falsetrue
11.which of the following is Hibernate?
a.Lightweight
b.Open Source
c.ORM
d.All of the listed
12. Which of the following options about Auto Wiring in spring are correct?
1.Auto-wiring in spring framework can be performed by configuring xml and auto-wiring with annotation @Autowired
2.Auto-wiring beans with xml configuration: I spring framework, you can wire automatically with autowiring feature.
3.To enable auto-wiring just define the "autowire" attribute in <bean> tag</bean>
13. Which of the following parses in xml based on expression and its used extensively in conjuction with XLST?
a.Xpath parser

b.SAX parser
c.STAX Parser
d.JDOM Parser
14.Length attribute of @column annotation permits the size of the column used to map a value particularly for a string value.
State true or Falsetrue
15. When we work with an object oriented system there's a mismatch between the object modal and the relational database. State true or False.
true
16. Which of the following is true about JDBC?
a.JDBC APIs enables java programs to execute SQL statements and interact with any SQL Complaint database
b.JDBC stands for Java Database Connectivity
c.it provides set of java API for accessing the relational databases from java program
d.All the listed option
17 What is session scope?
A - This scopes a bean definition to an HTTP session
B - This scopes the bean definition to Spring IoC container.
C - This scopes the bean definition to HTTP request.
D - This scopes the bean definition to HTTP Application/ Global session
18. Which of the listed statement are correct for spring Bean scope: Prototype?
1.Spring container creates new instance of bean for each and every request for that bean
2. Prototype scoped bean is served by creating new instance of bean for each and every bean dependency
3. After instatiating bean and submitting it to client spring container will maitain the record(not maintain)

4.Prototype scope is spring standard scope and can be used in standalone as well as web application of spring
19.ServletWrappingController-Wraps an existing servlet which is managed completely by the spring environment.State true or False.
true
20. Hibernate session is the main runtime interface between a java application and Hibernate. State true or False.
true
23. Which of the following are correct in sql queries in hibernate.
1.sql queries may contain named and positional parameters, just like hibernate queries
2. You may express aquery in sql usig createSQLQuery()
3Hibernate take care of the mapping from result sets to objects
4. You may call session.connection() and use JDBC Connection at any time
24. Which is the query language that embodies a very powerful and flexible mechanism to query, store, update and retrive
objects from a database?
a.PLSQL
b.RDBMS
c.SQL
d.HQL
25.What is spring MVC framework?
a.spring MVC framework is used for Transaction management for web application
b.spring MVC framework is Model-value-class architecture and used to bind model data
c.spring MVC framework is used for AOP for web application
d.spring web MVC framework provides model-view-controller architecture and ready components that can be used to develop flexible and loosely coupled web applications

26. Which of the listed options are True for bean configuration inneritance?
1.In spring the inheritance is supported in bean to share common values properties or configurations
2.A child bean or inherited bean can inherit its parent bean configurations, properties & some attributes
3.the parent bean allow to override the inherited values
27.XsltViewResolver-supports XsltView by resolving the view name of which of the following options?
a.View name of the URL of the report file
b.URL of the XSLT
c.VelocityView and its subclasses
d.All of the option
28.[xml]
<id name="depId" type="string"></id>
<colum length="30" name="columnId"></colum>
<generator></generator>
[xml]
The above is an example of creating which key?
a.Primary key
b.Secondary key
c.Unique key
d.
29. When you need to upload a large number of records into your database using Hibernate, you can use batch processing. State true or False.
true
30.Different types of run advice "before" and "after" the advised method is invoked.Which of the

following is the correct option with respect to advice?



36. Which of the following is not the steps for creating web MVC?
a.Provide exit controller in the web
b.Create a controller class
c.start server 7 deploy the project
d.Define the bean in the xml file
37. Maven is a project management & comprehension tool.
state true or False.
Ans:True
38. Which of the following elements is used to represent one-to-one relationship in hibernate?
a. <many-to-one></many-to-one>
b. <manytoone></manytoone>
c. <many-one></many-one>
d.none
Ans: <many-to-one></many-to-one>
39.In hibernate implement cache for a query ,if the result sets can integrate closely,which level
of the cache can be implemented?
a.first level cache
b.second level cache
c.third level cache
d.Fourth level cache
40. Spring MVC provides predefined templates for JDBC, Hibernate and JPA. state true or Falsetrue
Ans:True

d.Expression object mapping

41.In Spring MVC which of the following is the front controller class that initializes the context
based on the spring beans configuration?
a.org.springframework.web.servlet.DispatcherServlet
b.org.springframework.web.context.DispatcherServlet
c.org.springframework.web.servlet
d.org.springframework.web.context.ApplicationContext
42.Which of the following is NOT the type of mapping?
a.Instance mapping
b.Component mapping
c.Association mapping
d.Class mapping
43.Which of the following are modules of Web layer?
A - WebSocket, Servlet, Web, Portlet
B - WebSocket, Servlet, Web-MVC, Web
C - HTML, JSP, WEB, Portlet
D - HTML, Servlet, WEB, Portlet
44.Which of the following statements are correct?
a.Bean Factory and ApplicationContext are basic container only
b.Bean Factory is basic container and ApplicationContext is advanced container
c.Bean Factory and ApplicationContext are advanced container
d.Bean Factory is advanced container and ApplicationContext is basic container
45.In spring bean configuration bean atribute called 'scope' defines what kind of object
has to be created and returned. What returns a new bean instance each time when required?
a.Prototype
b.Session

c.Singleton
d.Global session
46.To validate the form fields you need to have a seperate UserValidator class
that implements the validator interface, override the validate() method perform all the validations. state true or False.
true
47. The application context implements which of the following interface that is used to obtain localized
messages, with the actual implementation being pluggable?
1.messageSource
2.RequestMapping
3.both
4.neither
48. Which of the following is an available aggregate function in HQL?
a.Aggregate(property name)
b.Count(property name or *)
c.max(property name)
d.avg(property name)
49. What statement is not correct in live environment? Select a unique answer.
1. Constuctor and properties autowiring in the same bean are not compatible
2. A bean should have a default or a no-args constructor
3. The <constructor-arg> tag could take type, name and index to reduce ambiguity</constructor-arg>
4. None of the above
5. All of the above
50 What is ContextClosedEvent event?

A - This event is published when the Servlet Context is either initialized or refreshed.

C - This event is published when the HTTP Response is returned.
D - This event is published when the ApplicationContext is closed using the close method on the
ConfigurableApplicationContext interface
51. Which of the following explains about addclass function in the listed options?
a.this function translate a java class name into file name
b.this translated file name is then loaded as an input stream from the java class loader
c.this addclass function is important if you want efficient usage of classes in your code
52.Spring MVC provides a JSP tag library(Spring form) for making it easier to bind form elements to model data.state true or False.
Ans:True
53. Which of the following is correct assertion about spring?
a. Spring enables developers to develop enterprise-class applications using POJOs.
b.Spring is organized in a modular fashion.
c.Testing an application written with spring is simple because environment-dependent code is moved into this framework.
d.All of above
54. Which of the following statement is INCORRECT by extending VlewResolver and Chaining ViewResolver?
a. programmers can have custom view resolvers
b. There are lot of view resolvers available in Spring framework
c. Spring MVC view resolvers help the Dispatcher Servlet in identifying the views which has to be rendered in response for a request.
d.none

B - This event is published when the HTTP Request is received.

55. What are the benefits of Spring Framework's transaction management? a.It Provides a consistent programming model across different transaction APIs such as JTA, JDBC, Hibernate, JPA, and JDO. b.It Supports declarative transaction management. c.lt Provides a simpler API for programmatic transaction management than a number of complex transaction APIs such as JTA. d.All the listed-----56. Given the following configuration class, what are correct affirmations? Select one or more answers. public class ApplicationConfig { private DataSource dataSource; @Autowired public ApplicationConfig(DataSource dataSource) { this.dataSource = dataSource; } @Bean(name="clientRepository") ClientRepository jpaClientRepository() { return new JpaClientRepository(); } 1. @Configuration annotation is missing------2. Default or no-arg constructor is missing-----3. @Bean name is ambiguous 4. @Bean scope is prototype

A.This helps in wiring a list of values, allowing duplicates
B.This helps in wiring a list of values but without any duplicates <set></set>
C.This can be used to inject a collection of name-value pairs where name and value can be of
any type <map></map>
D.This can be used to inject a collection of name-value pairs where the name and value are
both Strings <props></props>
Ans:This helps in wiring a list of values, allowing duplicates.
58. Which are the correct implementation classes of ApplicationContext?
A. File System Xml Application Context, Class Path Xml Application Context,
WebXmlApplicationContext
B. File System Application Context, Class Path Application Context, Web Application Context
C.AdvancedApplicationContext, FileApplicationContext
D.FileSystemApplicationContext, ClassPathApplicationContext
59.It is difficult to inject the dependency by constructor. state true or Falsetrue
60.The Model-View-Controller(MVC) is an architectural pattern that does not separate an application
into three main logical compponents: the model, the view and the controller.
state true or Falsefalse
1) Given the following configuration class, what are correct affirmations? Select one or more answers.
public class ApplicationConfig {
private DataSource dataSource;

```
@Autowired
  public ApplicationConfig(DataSource dataSource) {
 this.dataSource = dataSource;
 @Bean(name="clientRepository")
 ClientRepository jpaClientRepository() {
 return new JpaClientRepository();
}
1. @Configuration annotation is missing-----ANS
2. Default or no-arg constructor is missing-----ANS
3. @Bean name is ambiguous
4. @Bean scope is prototype
2)<id name="deptId" type="string">
<column name="columnid" length="30"/>
<generatoers/>
<id/>
[/xml]
The above is an example of creatinf which key?
Select One:
a.DB key
b.Unique key
c.Secondary key
d.Primary key-----ANS
```

3)ApplicationContext implements which of the following interface that is used to obtain localized messages, with the actual implementation being pluggable
I. MessageSource
II. RequestMapping
Select One:
a. only IANS
b.only II
c. Neither I or II
d. Both I and II
4). Which of the following is a many to one relationship
a) many-to-one
b) <many-to-one>ANS</many-to-one>
c) None of the list
d) <manyone></manyone>
5)What of the following is not correct in live environment?
select one
a. Constuctor and properties autowiring in the same bean are not compatible
b. A bean should have a default or a no-args constructor
c. The <constructor-arg> tag could take type, name and index to reduce ambiguity</constructor-arg>
d. All of the aboveANS

6)Which of the following is not available in HQL
select one
a)Select
b)Where
c)SubAns
d)Having
7)maven is a project management and comprehension tool
select one
TrueAns
False
8)How many layers are there in Hibernate architechture
select one
a)3
b)4Ans
c)5
d)2
9)Beans,Core, Context,spEL are the components in Core container
select one
TrueAns
False

10) PROPAGATION_REQUIRES_NEW
Ans: Creates a new transaction, suspending the current transaction if one exists.
11)Element which can be used to inject a collection of name-value pairs where the name and the value can be of any type.
select one
a) <list></list>
b) <set></set>
c) <map>ANS</map>
d) <props></props>
12)Element which can be used to inject a collection of name-value pairs where the name and the value are both Strings type.
select one
a) <list></list>
b) <set></set>
c) <map></map>
d) <pre>cprops>ANS</pre>
13)which type of annotation applies to bean property setter methods
select one

a)@Requires

b)@Resource
c)@RequiredANS
d)@Requiring
14)ORM stands for Object-Relational Mapping (ORM) is a programming technique for converting data between relational databases.
select one
TrueAns
False
15)Which tool helps to generate the mapping document Though many Hibernate users choose to write the XML by hand
select one
a)oldgen
b)younggen
c)MiddlegenANS
d) Mediumgen
16)Java based configuration option disables you to write most of your Spring configuration without XML but with the help of few Java-based annotations
select one
True
FalseAns
17) What types of views supported by spring MVC for different presentation technologies

select one or more

a)JSP
b)HTML
c)velocity templates
d)
Ans: select all
18)Spring is a heavy weight framework
select one
True
FalseAns
19)A very powerful and high performance qurerying language used to Query,retrive,store data in DB is
select one
a)PLSQL
b)HQLANS
c)SQL
d)RDBMS
20) which of the following options about Auto wiring in spring are correct?

- I. The Auto wiring in spring framework can be performed by configuring in xml and spring Auto-Wiring with Annotation @Autowired
- II. Auto-wiring beans with xml configuration: In Spring framework, you can wire beans automatically with auto wiring feature
- III. To enable auto-wiring just define the "autowire" attribute in <bean> tag.

Select One:
a.l, II, and IIIANS
b.I and III
c.I and II
d.II and III
1) In Spring AOP, the process of linking aspect with other application types or objects to create an advice object is called
Weaving(ans)
2) < list> tag is used to wire a list of values, allowing duplicates.
3) BeanFactory, ApplicationContext classes acts as IoC containers in Spring.

4) Can you in	iject null and empty string values in Spring? ans: yes
5) AOP stand	ls for Aspect Oriented Programming.
6) SpEL is NO	
7)Following o	class can be extended to create custom event in spring. ans: ApplicationEvent
8)Which is th	 ne way to provide configuration metadata to spring?
	ed configuration file.
C - Java base	d configuration.
d - all	ANS

9)Which are the modules of Web layer? ans:WebSocket, Servlet, portlet,web
10) how many intances can be created fora global session : one
11)what display the data with help of model? Ans: View
12) read the below statements and ans according to questions
I.Spring enables developers to develop enterprise-class applications using POJOs.
II.Spring is organized in a modular fashion.
III.Testing an application written with Spring is simple
IV. All of the listANS

13) How after advice works?
A - Run advice after a method execution regardless of its outcomeANS
B - Run advice after a class loads.
C - Run advice after http response is returned.
D - Run advice after http request is processed.
14)which can be used to inject a collection of name-value pairs where name and value can be of any type. ANSMAP
15)What is ContextStartedEvent event?
A - This event is published when the Servlet Context is either initialized or refreshed.
B - This event is published when the HTTP Request is received.

C - This event is published when the ApplicationContext is started using the start() method on the ConfigurableApplicationContext interfaceANS
D - This event is published when the HTTP Response is returned.
16)which of the following not availble in HQL?
select
where
having
subans
17) which is a aggregate function in HQL (multiple choice)? ANS-sum, avg and count (dont select aggregate)
18) Which of the following database is not supported by Hibernate?
A - DB2/NT
B - MySQL
C - FoundationDBANS

D - PostgreSQL
19)Which of the following is true about Hibernate?
A - Hibernate is an Object-Relational Mapping(ORM) solution for JAVAans
B - Hibernate is an Object-Relational Mapping(ORM) solution for .NET
C - Both of the above.
D - None of the above.
20)What is the difference between save() and persist() methods of session object?
A - There is no difference.
B - save saves the object and returns status whereas persist stores status in different variable.
C - save saves the object and returns the id of the instance whereas persist do not return anything after saving the instanceANS
D - None of the above.

21)what is required to write a basic spring program? ANSjdk,ide,maven,all the above
22) BeanFactory, ApplicationContext classes acts as IoC containers in Spring.
23) JDBC, ORM, OXM, JMS, Transactions are the modules of Data Access/ Integration layerTRUE
24)ContextStartedEvent event is published when the ApplicationContext is started using the start() method on the ConfigurableApplicationContext interfaceTRUE
25)Spring framework is a light weight frameworkTRUE

26)singleton is the default scope of any spring beanTRUE
27)
Analyze the below code snippet:
<pre><bean class="com.spring.service.MyServiceImpl"></bean></pre>
<pre><pre><pre><pre>property name="repository" ref="jpaDao"/></pre></pre></pre></pre>
<pre><bean class="com.spring.repository.JpaDao"></bean></pre>
Which of the following statements is valid?
I. The "id" attribute must be declared for the bean "MyServiceImpl" because it is mandatory attribute.
II. In the second bean of type "com.spring.repository.JpaDao" the "id" attribute must be specified with name "jpaDao".
Select One
a Both I and II are correct
b II onlyANS
c I only
d Both I and II are incorrect

28) Which of the following parses in XML based on expression and its used extensively in conjugation with xstl ?

Select One:
a)JDOM parser
b)SAX parser
c) STAX parser
d) Xpath parser0ANS
29) what is true about BeanFactory, ApplicationContext?
ANS-BeanFactory is basic and ApplicationContext is advanced
30)What are the common implementations of the Application Context?
ANS- FileSystemXmlApplicationContext,ClasspathXmlApplicationContext,WebxmlApplicationContext(answers are confusing- xml should be common in those three)
31) org.springframework.web.servlet.DispatcherServlet is the congfiguration in xml file for dispatcherServlet.

d. All of the aboveans
c. The <constructor-arg> tag could take type, name and index to reduce ambiguity</constructor-arg>
b. A bean should have a default or a no-args constructor
a. Constuctor and properties autowiring in the same bean are not compatible
select one
35) What of the following is not correct in live environment?
34)sessionThis scopes a bean definition to an HTTP session only.
33) maven is a project management and comprehension toolTrue
b). FALSE
a). TRUEANS
State True or False
32) The central artefact in spring javConfig is the @Configuratuion annotated class?

```
36) Given the following configuration class, what are correct affirmations? Select one or more answers.
  public class ApplicationConfig {
  private DataSource dataSource;
  @Autowired
  public ApplicationConfig(DataSource dataSource) {
 this.dataSource = dataSource;
 }
 @Bean(name="clientRepository")
 ClientRepository jpaClientRepository() {
 return new JpaClientRepository();
}
}
1. @Configuration annotation is missing-----ANS
2. Default or no-arg constructor is missing-----ANS
3. @Bean name is ambiguous
4. @Bean scope is prototype
37) Question on servlet wrapping ---true
38)[xml]
<id name="deptId" type="string">
<column name="columnid" length="30"/>
<generatoers/>
```

<id></id>
[/xml]
The above is an example of creatinf which key?
Select One:
a.DB key
b.Unique key
c.Secondary key
d.Primary keyANS

20) validations for normal amplayee class
39)validations for normal employee class
I.Name cant be empty
I.Id cant be empty
III.Id cant be less than 1
iV.all the aboveANS

40)Not a type of mapping
I. instance mappingans
II. association mapping
III. Class mapping

IV.
41)ContextClosedEventis published when the ApplicationContext is closed using the close() method on the ConfigurableApplicationContext interface
42)Around adviceRun advice before and after the advised method is invoked.
43)HQL- easily stores, update and retrieve from the database
State True or False
a). TRUEANS
b). FALSE
44)Hibernate is lightweight, opensource and ORM (Multiple choice)
ANSall the above

45)Hibernate session is the main runtime interface between java applications and hibernate.

State True or False
a). TRUEANS
b). FALSE
46)When we work with an object oriented system, there is mismatch between the object model and the relational database.
State True or False
a). TRUEANS
b). FALSE

47) and in a manada la visa a partual la d
47)spring mvc is a model-view-controller
State True or False
a). TRUEANS
b). FALSE
48) form fields are validated using user defined validations class by implementing validation interface

State True or False

a). TRUETRUE
b). FALSE

49) spring does not seperate three modules like presentation layer, bussiness layer and data access layer
State True or False
a). TRUE
b). FALSEANS
50) pick odd one out in the following annotations
I.@PathValid ans
II.@responsevalidans
III.@Controller
IV.@requestmapping
51)lenth returns number of rows in a column for only string type
State True or False
a). TRUEans
b). FALSE

52) which level cache implements a cache for query resultsets
a.Third level cacheans
b.Second level cache
c.First level cache
d. Fourth level cache
53)read about prototype and singleton scopes.
54) form tags are available in springs is more compatible wth html tags for better development
State True or False
a). TRUEANS
b). FALSE

55) Which of the following are CORRECT in SQL queries in Hibernate.
L SOL quaries may contain named and positioned parameters, just like Hibernate quaries
I. SQL queries may contain named and positioned parameters, just like Hibernate queries
II. You may express a query in SQL, using createSQLQuery()
III. Hibernate take care of the mapping from result sets to objects

select one
a. I, II, and IIIans
b. I, II, and IV
c. I, III, and IV
d. I, II, III, and IV
56)what are the modules in the spring-webflow(
bundling not an ans
spring-webflow
spring-
spring-

57)what is the function of clean maven lifecycle command
ANS-cleans artefacts in the earlier build
58)which of the following is not the best pracice?

IV. You may call session.connection() and use the JDBC Connection at any time.

I.Exit controller has to define in web.xml
II.bean definition
III.open the server and deploy the projectans not sure
IV.@controller usage
59.Constructor injection is didfficult to inject
State True or False
a). TRUEans
b). FALSE
60.index and type can be used in the constrictor-arg at the same time?
State True or False
a). TRUEans
b). FALSE
61. Which of the following is a one to one relationship
a) <many-to-many></many-to-many>
b) <many-to-one>ans in tutorial point</many-to-one>
c) None of the list
c) Notice of the list

d) <one-to-many></one-to-many>
62) the same XSD of BeanFactory can be used for View resolver interface?
State True or False
a). TRUEANS
b). FALSE
63) Which of the following is correct assertion about spring?
A - Spring enables developers to develop enterprise-class applications using POJOs.
D. Coning is a grantical in a grantular facilities
B - Spring is organized in a modular fashion.
C - Testing an application written with spring is simple because environment-dependent code is moved
into this framework.
D - All of aboveANS
64)
What is ContextStoppedEvent event?

A - This event is published when the Servlet Context is either initialized or refreshed.
B - This event is published when the ApplicationContext is stopped using the stop() method on the ConfigurableApplicationContext interfaceANS
C - This event is published when the HTTP Request is received.
D - This event is published when the HTTP Response is returned.
65)XsltViewResolver-supports XsltView by resolving the view name of which of the following options
a) all of the listed options
b)VelocityView and its subclasses
c)URI of xsltANS
d)view name of the URL of the report file.
66) Spring MVC provides predefined templates for JDBC, Hibernate and JPA.
State True or False
N =====
a). TRUEANS

67) ApplicationContext implements which of the following interface that is used to obtain localized messages, with the actual implementation being pluggable
I. MessageSource
II. RequestMapping
Select One:
a. only IANS
b.only II
c. Neither I or II
d. Both I and II
68) Which of the following are the best practices for writing spring XML Configurations?
select one or more
a.Using consistent naming conventionsANS
b. Rarely use classpath
c.Mentioning version numbers in schema references
d.reuse bean definitions as much as possibleANS

69) To validate the form fields you need to have a seperate UserValidator class that implements the validator interface, Override the validate() method perform all the validations.			
State True or False			
a) TRUE ANG			
a). TRUEANS			
b). FALSE			
70) which of the listed options are TRUE for Bean configuration inheritance?			
I. In spring, Inheritance is supported in bean configuration to share common values, properties or configurations			
II. A child bean or inherited bean can inherit its parent bean configurations, properties and some attributes			
III. The parent bean allow to override the inherited values			
Select One:			
a.l, II, and IIIANS			
b.I and II			
c.II and III			
d.I and III			
			
71) which of the following options about Auto wiring in spring are correct?			
I. The Auto wiring in spring framework can be performed by configuring in xml and spring Auto-Wiring			

with Annotation @Autowired

II. Auto-wiring beans with xml configuration: In Spring framework, you can wire beans automatically with auto wiring feature
III. To enable auto-wiring just define the "autowire" attribute in <bean> tag.</bean>
Select One:
a.I, II, and IIIANS
b.I and III
c.I and II
d.II and III
72) XML Mapping file offers which of the following?
Select One:
a.Readable Metadata
b.Surrogate key generation strategy
c.Collecion metadata
d.all the listed optionsANS
e.Column/Table Mapping
73) Which of the following explains about addClass function in the listed options
I. This function translates a Java class name into file name
II. This translated file name is then loaded as an input stream from the java class loader
III. This addClass function is important if you want efficient usage of classes in your code

Expected Questions:
1). In Spring AOP, 4 type of advices are supported :
beforeRun advice before the method execution.
afterRun advice after the method execution, regardless of its outcome.
after-returning adviceRun advice after the method execution, only if the method completes successfully.
after-throwing adviceRun advice after the method execution, only if the method exits by throwing an exception.
aroundRun advice before and after the advised method is invoked.
2). ResourceLoader support: Spring's Resource interface us a flexible generic abstraction for handling low-level resources. An application context itself is a ResourceLoader, Hence provides an application with access to deployment-specific Resource instances.
MessageSource support: The application context implements MessageSource, an interface used to obtain localized messages, with the actual implementation being pluggable.
3). Which of the following are the best practices for writing spring XML Configurations?
1) Add a header comment to each configuration file
2) Use consistent naming conventions
3) No version numbers in schema references

4) Prefer setter injection over constructor injection

5) Prefer type over index for constructor argument matching
6) Use shortcut forms over expanded forms
7) Reuse bean definitions as much as possible
8) Always use ids as bean identifiers
9) Try to avoid autowiring
10) Always use classpath prefix
11) Always externalize properties
12) Use dependency-check at the development phase
13) Do not abuse/overuse dependency injection
4). Spring framework architecture:
Data Access/IntegrationJDBC,ORM,OXM,JMS, Transactions
Web(MVC/Remoting)WebSocket,Servlet,Web, Portlet
AOP
Aspects
Instrumentation
Messaging
Core containerBeans,Core, Context,spEL
Test
5)
Spring BeanFactory Container-org springframework beans factory BeanFactoryinterface

 $Spring\ Application Context\ Container-org. spring framework. context. Application Context$

6)Bean Scopes:	
Scope	Description
singleton instance per Spring IoC container (default).	This scopes the bean definition to a single
prototype number of object instances.	This scopes a single bean definition to have any
request request. Only valid in the context of a web-aware Spring ApplicationContext.	This scopes a bean definition to an HTTP
session session. Only valid in the context of a web-aware Spring ApplicationContext.	This scopes a bean definition to an HTTP
global-session session. Only valid in the context of a web-aware Spring ApplicationContext.	This scopes a bean definition to a global HTTP
7) Spring-Injecting Collection:	
Element	Description

<pre><list> allowing duplicates.</list></pre>	This helps in wiring i.e., injecting a list of values,
<set> any duplicates.</set>	This helps in wiring a set of values but without
<map> value pairs where the name and the</map>	This can be used to inject a collection of name-value can be of any type.
<pre><pre><pre><pre><pre><pre> name-value pairs where the name ar</pre></pre></pre></pre></pre></pre>	This can be used to inject a collection of nd the value are both Strings.
8) Autowiring Modes:	
Mode	Description
no autowiring and you should use explic have to do n Dependency Injection chapter.	This is a default setting which means no sit bean reference for wiring. You othing special for this wiring. This is what you already have seen in
	Autowiring by property name. Spring he beans on which autowire attribute t to byName in the XML configuration file. It then tries to match and defined ation file.
and wire a property if its	Autowiring by property datatype. Spring he beans on which autowire et to byType in the XML configuration file. It then tries to match type matches n the configuration file. If more than one such beans exists, a fatal exception is thrown.

constructor constructor arguments. If there is not exactly one bean	Similar to byType, but this type applies to of the	
constructor argument type in the container, a fatal error is raised.		
autodetect constructor, if it does not work, Spring tries to autowire byType.	Spring first tries to wire using autowire by e by	
Autowiring Limitations:		
Limitations	Description	
Overriding possibility <constructor-arg> and <pre><pre><pre></pre></pre></pre></constructor-arg>	You can still specify dependencies using lways override	
Primitive data types properties such as primitives, Strings, and Classes.	You cannot autowire so-called simple	
Confusing nature possible prefer using explict wiring.	Autowiring is less exact than explicit wiring, so if	
9) @RequiredThe @Required annotation applies to	bean property setter methods	
@AutowiredThe @Autowired annotation can apply to bean property setter methods, nonsetter methods, constructor and properties.		
@QualifierThe @Qualifier annotation along with @	@Autowired can be used to remove the confusion	

by specifiying which exact bean will be wired.

JSR-250 AnnotationsSpring supports JSR-250 based annotations which include @Resource, @PostConstruct and @PreDestroy annotations.(Go through these annotations also)
10) @Configurationindicates that the class can be used by the Spring IoC container as a source of bean definitions.
@Beanannotation tells Spring that a method annotated with @Bean will return an object that should be registered as a bean in the Spring application context
@Importannotation allows for loading @Bean definitions from another configuration class
11) Spring Event Handling:
ContextRefreshedEventThis event is published when the ApplicationContext is either initialized or refreshed. This can also be raised using the refresh() method on the ConfigurableApplicationContext interface.
ContextStartedEventThis event is published when the ApplicationContext is started using the start() method on the ConfigurableApplicationContext interface. You can poll your database or you can restart any stopped application after receiving this event.
ContextStoppedEventThis event is published when the ApplicationContext is stopped using the stop() method on the ConfigurableApplicationContext interface. You can do the required housekeep work after receiving this event.

method on the	eventThis event is published when the Configurable Application Context interface nnot be refreshed or restarted.	ne ApplicationContext is closed using the close() . A closed context reaches its
RequestHandle serviced.	dEventThis is a web-specific event te	lling all beans that an HTTP request has been
12) AOP Termin	nologies:	
Terms]	Description
Aspect providing cross-aspects depend	-cutting requirements. For example, a logg would be called AOP aspect for lo	This is a module which has a set of APIs ging module ogging. An application can have any number of
	r	requirement.
Join Poi where you can framework.	plug-in the AOP aspect. You can also say, i	This represents a point in your application it is the nere an action will be taken using Spring AOP
Advice before or after	the method execution. This is an actual pi code that is invoked during the program	
Pointcu advice should b	e executed. You can specify pointcuts using expressions or patterns as we will see in a	

Introduction

An introduction allows you to add new methods or attributes to the existing classes.

Target Object

The object being advised by one or more aspects. This object will always be a proxied object, also referred to as the advised object.

Weaving

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

This can be done at compile time, load time, or at runtime.

Approach Description

XML Schema based Aspects are implemented using the regular classes along with XML based configuration.

@AspectJ based @AspectJ refers to a style of declaring aspects as regular Java classes annotated with Java 5 annotations.

14) Spring Transaction Management:

ACID:

Atomicity: A transaction should be treated as a single unit of operation, which means either the entire sequence of operations is successful or unsuccessful.

Consistency: This represents the consistency of the referential integrity of the database, unique primary keys in tables, etc.

Isolation: There may be many transaction processing with the same data set at the same time. Each transaction should be isolated from others to prevent data corruption.

Durability: Once a transaction has completed, the results of this transaction have to be made permanent and cannot be erased from the database due to system failure.

Methods and description:

TransactionStatus getTransaction(TransactionDefinition definition) active transaction or creates a new one,according to the specified propagation behavior.

This method returns a currently

void commit(TransactionStatus status) transaction, with regard to its status.

This method commits the given

void rollback(TransactionStatus status) rollback of the given transaction.

This method performs a

int getPropagationBehavior()
propagation behavior. Spring offers all of the transaction propagation
options familiar from EJB CMT.

This method returns the

int getIsolationLevel() to which this transaction is isolated from the	This method returns the degree
work of other transactions.	
String getName() of this transaction.	This method returns the name
int getTimeout() seconds in which the transaction must complete.	This method returns the time in
boolean isReadOnly() the transaction is read-only.	This method returns whether
15)	
isolation levels:	
TransactionDefinition.ISOLATION_DEFAULT isolation level.	This is the default
TransactionDefinition.ISOLATION_READ_COMMITTED reads are prevented; non-repeatable reads and phantom reads can occ	Indicates that dirty ur.
TransactionDefinition.ISOLATION_READ_UNCOMMITTED reads, non-repeatable reads, and phantom reads can occur.	Indicates that dirty

Indicates that dirty

 $Transaction Definition. ISOLATION_REPEATABLE_READ$

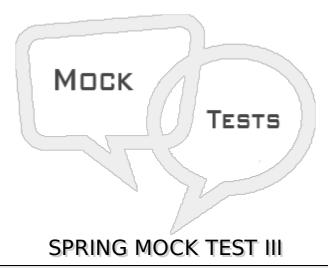
reads and non-repeatable reads are prevented; phantom reads can occur.

TransactionDefinition.ISOLATION_SERIALIZABLE repeatable reads, and phantom reads are prevented.	Indicates that dirty reads, non-
16) propagation types:	
TransactionDefinition.PROPAGATION_MANDATORY transaction; throws an exception if no current transaction exists.	Supports a current
TransactionDefinition.PROPAGATION_NESTED transaction if a current transaction exists.	Executes within a nested
TransactionDefinition.PROPAGATION_NEVER current transaction; throws an exception if a current transaction exists.	Does not support a
TransactionDefinition.PROPAGATION_NOT_SUPPORTED current transaction; rather always execute nontransactionally.	Does not support a
TransactionDefinition.PROPAGATION_REQUIRED transaction; creates a new one if none exists.	Supports a current
TransactionDefinition.PROPAGATION_REQUIRES_NEW transaction, suspending the current transaction if one exists.	Creates a new
TransactionDefinition.PROPAGATION_SUPPORTS transaction; executes non-transactionally if none exists.	Supports a current
TransactionDefinition.TIMEOUT_DEFAULT timeout of the underlying transaction system, or none if timeouts are no supported.	Uses the default ot



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This section presents you various set of Mock Tests related to **Spring Framework**. You can download these sample mock tests at your local machine and solve offline at your convenience. Every mock test is supplied with a mock test key to let you verify the final score and grade yourself.



Q 1 - What is Introduction?

- A An introduction represents a point in your application where you can plug-in AOP aspect.
- B This is used to inject values in objects.
- C This is not invoked during program execution by Spring AOP framework.
- D An introduction allows you to add new methods or attributes to existing classes.

Q 2 - What is Target object?

- A A represents a object in your application where you can plug-in AOP aspect.
- B The object being advised by one or more aspects, this object will always be a proxy object, also referred to as the advised object.
- C This is used to inject values in objects.
- D This is not invoked during program execution by Spring AOP framework.

Q 3 - What is Weaving?

- A Weaving is the process of injecting values in objects to create an advised object.
- B Weaving is the process of linking aspects with other application types or objects to create an advised object.
- C This is used to inject values in objects.
- D Weaving is used to check object dependencies.

Q 4 - What are the different points where weaving can be applied?

A - Compile time, load time

- B Compile time, run time
- C Run time
- D Compile time, load Time, Run time

Q 5 - What are the types of advice?

- A then, after, after-returning, after-throwing, around
- B When, after, after-returning, around
- C Where, after, after-returning, after-throwing, around
- D Before, after, after-returning, after-throwing, around

Q 6 - How before advice works?

- A Run advice before a class loads.
- B Run advice before a method execution.
- C Run advice before http response is to be returned.
- D Run advice before http request is to be processed.

Q 7 - How after-returning advice works?

- A Run advice after a class loads only if class loads successfully.
- B Run advice after a method execution only if method completes successfully.
- C Run advice after http response is returned only if http response is success.
- D Run advice after http request is processed with no exception.

Q 8 - How after-throwing advice works?

- A Run advice after a method execution only if method exits by throwing an exception.
- B Run advice after a class loads only if class throws exception during load time.
- C Run advice after http response is returned with error status.
- D Run advice after http request is processed and an exception occurred.

Q 9 - How around advice works?

- A Run advice before and after the advised method is invoked.
- B Run advice before and after a class is loaded.
- C Run advice before and after http response is returned.
- D Run advice before and after http request is processed.

Q 10 - Which of the following aspect implementation spring supports?

- A XML Schema based aspect implementation
- B @AspectJ based aspect implementation
- C Both of above.
- D None of above.

Q 11 - What are the types of the transaction management Spring supports?

- A Programmatic transaction management
- B Declarative transaction management
- C Both of above.
- D None of above.

Q 12 - What is Spring MVC framework?

- A Spring MVC framework is Model-Value-Class architecture and used to bind model data with values.
- 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.
- D Spring MVC framework is used for AOP for Web Applications.

Q 13 - What is @Controller annotation?

- A The @Controller annotation indicates that a particular class serves the role of a controller.
- B The @Controller annotation indicates how to control the transaction management.
- C The @Controller annotation indicates how to control the dependency injection.
- D The @Controller annotation indicates how to control the aspect programming.

Q 14 - What are the ways to access Hibernate by using Spring?

- A Inversion of Control with a Hibernate Template and Callback.
- B Extending HibernateDAOSupport and Applying an AOP Interceptor node.
- C Both of above.
- D None of above.

Q 15 - Which ORM Spring supports?

- A Hibernate
- B iBatis
- C JPA

D - All of above.
E - None of above.
Q 16 - Which of the following database is not supported using jdbcTemplate?
A - MySql
B - PostgresSql
C - NoSql
D - Oracle
Q 17 - How to get object of a service in spring framework?
A - Using new keyword
B - Using dependency injection
Q 18 - Which of the following is part of Data Access layer in Spring framework?
A - Beans
B - Aspects
C - JMS
D - Context
Q 19 - How to use ref keyword in beans.
xml?
A - Using setter method only.
B - Using constructor argument only.
C - Using setter method and constructor argument both.
D - None of the above.
Q 20 - Core container has AOP as one of its module.
A - True
B - False
Q 21 - SpEL is part of core container.
A - False
B - True

Q 22 - Which class acts as IoC Container?
A - ServletContext
B - DispatcherServlet
C - ApplicationContext
D - None of the above
Q 23 - What stands true for spring framework?
A - Spring framework is a light weight framework.
B - Spring framework is a heavy weight framework.
Q 24 - Expression Language/ SpEL was introduced in which version of spring framework.
A - 1.0
B - 2.0
C - 3.0
D - 4.0
Q 25 - Can we integrate Struts with Spring.
A - Yes
B - No
Q 26 - By default a bean is lazily loaded.
A - True
B - False
Q 27 - By default a bean is eagerly loaded.
A - False
B - True
Q 28 - If a bean is scoped to HTTP request, scope is
A - session
B - global-session
C - prototype
D - request

Q 29 - If a bean is created once per loc Container, scope is
A - singleton
B - global-session
C - prototype
D - request
Q 30 - Thread scoped bean is introduced in which version of spring framework.
A - 1.0
B - 2.0
C - 3.0
D - 4.0
Q 31 - If a bean can be created any number of times, scope is
A - session
B - global-session
C - prototype
D - request
Q 32 - What is the scope of stateless bean?
A - global-session
A - global-session B - singleton
B - singleton
B - singleton C - prototype
B - singleton C - prototype
B - singleton C - prototype D - request
B - singleton C - prototype D - request Q 33 - What is the scope of stateful bean?
B - singleton C - prototype D - request Q 33 - What is the scope of stateful bean? A - session
B - singleton C - prototype D - request Q 33 - What is the scope of stateful bean? A - session B - global-session
B - singleton C - prototype D - request Q 33 - What is the scope of stateful bean? A - session B - global-session C - prototype
B - singleton C - prototype D - request Q 33 - What is the scope of stateful bean? A - session B - global-session C - prototype
B - singleton C - prototype D - request Q 33 - What is the scope of stateful bean? A - session B - global-session C - prototype D - request
B - singleton C - prototype D - request Q 33 - What is the scope of stateful bean? A - session B - global-session C - prototype D - request Q 34 - If a bean is scoped to HTTP session, scope is
B - singleton C - prototype D - request Q 33 - What is the scope of stateful bean? A - session B - global-session C - prototype D - request Q 34 - If a bean is scoped to HTTP session, scope is A - global-session

Q 35 - How to handle shut down of IoC container?

- A Using shutdownHook
- B Using shutdownHandler
- C Using registerHook
- D Using registerShutdownHook

Q 36 - How bean life cycle can be controlled?

- A Using init only
- B Using InitializingBean class only
- C Using DisposableBean class only
- D Using All of above

Q 37 - What is the scope of bean in portlet context?

- A session
- B global-session
- C prototype
- D request

Q 38 - How after advice works?

- A Run advice after a method execution regardless of its outcome.
- B Run advice after a class loads.
- C Run advice after http response is returned.
- D Run advice after http request is processed.

Q 39 - Which class is used to map a database row to a java object in spring?

- A ResultSet
- B RowMapper
- C RowSetMapper
- D ResultSetMapper

Q 40

A bean must have id attribute in beans configuration file.

A - True

- B False

 Q 41 Which of the following class can be used to execute Sql queries in spring?
- B JDBCHelper
- A JdbcTemplate
- C DBHelper
- D DBTemplate

Q 42 - Which of the following class can be used to call Stored Procedures in spring?

- A SPHelper
- B JdbcTemplateCall
- C JdbcTemplate
- D SimpleJdbcCall

Q 43 - What is a DispatcherServlet?

- A DispatcherServlet is used for transaction management.
- B DispatcherServlet is used for AOP.
- C DispatcherServlet handles all the HTTP requests and responses.
- D DispatcherServlet is used for Dependency injection.

Q 44 - What is ACID in transactional management?

- A Accurate, Controlled, Isolation, Durability
- B Atomicity, Consistency, Independent, Done
- C Atomicity, Consistency, Isolation, Durability
- D Accurate, Controlled, Independent, Done

Q 45 - Where do you define DispatcherServlet?

- A In Beans configuration file.
- B Web.xml file
- C Meta-inf/dispatcher.xml
- D Web-inf/ dispatcher.xml

Q 46 - What is true about BeanPostProcessor?

- A It is a concrete class.
- B It is an interface.

C - It is all abstract Ci	ass.					
D - None of the above.						
Q 47 - What BeanP	ostProcessor	does?				
A - It processes beans once a bean is initialized.						
B - It defines callback methods that you can implement to provide your own instantiation logic, dependency-resolution logic etc.						
C - It processes beans once a bean is loaded.						
D - It processes beans once a bean exits.						
Q 48 - Can be bean	n be configure	d to have an inner bean?				
A - True						
B - False						
Q 49 - Can we inje	ct value and re	ef both together in a bean?				
A - True						
B - False						
Q 50 - Following cl A - SpringEvent B - Event C - ApplicationEvent D - None of above		tended to create custom event in spring.				
		ANSWER SHEET				
Question Number	Answer Key					
1	D					
2	В					
3	В					
4	D					
5	D					
6	В					
7	В					
8	Α					

3 A 11 C 12 B 13 A 14 C 15 D 16 C 17 B 18 C 19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D 43 C	9	A
11 C 12 B 13 A 14 C 15 D 16 C 17 B 18 C 19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
12		
13 A 14 C 15 D 16 C 17 B 18 C 19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
14 C 15 D 16 C 17 B 18 C 19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
15 D 16 C 17 B 18 C 19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
16 C 17 B 18 C 19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
17 B 18 C 19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
18 C 19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
19 C 20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
20 B 21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
21 B 22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
22 C 23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
23 A 24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
24 C 25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
25 A 26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
26 B 27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
27 B 28 D 29 A 30 C 31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
28 D 29 A 30 C 31 C 32 B 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
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31 C 32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
32 B 33 C 34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D		
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34 B 35 D 36 D 37 B 38 A 39 B 40 B 41 A 42 D	32	
35D36D37B38A39B40B41A42D	33	C
36D37B38A39B40B41A42D	34	В
37B38A39B40B41A42D	35	D
38A39B40B41A42D	36	D
39B40B41A42D	37	В
 40 41 42 D 	38	A
41 A 42 D	39	В
42 D	40	В
	41	A
43 C	42	D
	43	C

44	С
45	В
46	В
47	В
48	A
49	A
50	С

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Core Spring 3.0 Certification Mock Exam

Question

Container

Question 1

Given the following Spring configuration file, what is the correct answer:

- 1. The first declared bean MyServiceImpl is missing an id must be named myService
- 2. The second declared bean JpaDao is missing an id must be named jpaDao
- 3. Answers 1 and 2 are both rights
- 4. Answers 1 and 2 are both wrong

Question 2

Given the Spring configuration file, which are the correct statements?

- 1. The p namespace has to be declared
- 2. Bean id is bankServiceImpl
- 3. The BankServiceImpl references a NationalBank bean
- 4. NationalBank is a scalar value

Question 3

How is named the bean that is defined in the following configuration class. Select a single answer.

```
@Configuration
public class ApplicationConfig {

    @Autowired
    private DataSource dataSource;

    @Bean
    ClientRepository clientRepository() {
        ClientRepository accountRepository = new JpaClientRepository();
        accountRepository.setDataSource(dataSource);
        return accountRepository;
```

```
}
```

- 1. JpaClientRepository
- 2. jpaClientRepository
- 3. clientRepository
- 4. Two beans are defined : a data souce and a repository

How could you externalize constants from a Spring configuration file or a Spring annotation into a .properties file? Select one or more answers

- 1. By using the <util:constant /> tag
- 2. By declaring the ConstantPlaceholderConfigurer bean post processor
- 3. By using the <context:property-placeholder /> tag
- 4. By using the c: namespace

Question 5

What statement is not correct in live environment? Select a unique answer.

- 1. Constuctor and properties autowiring in the same bean are not compatible
- 2. A bean should have a default or a no-args constructor
- 3. The <constructor-arg> tag could take type, name and index to reduce ambiguity
- 4. None of the above
- 5. All of the above

Question 6

What are the right affirmations about the @PostConstruct, @Resource and the @PreDestroy annotations?

- 1. Those annotations are specified in the JSR-250
- 2. The Spring Framework embedded those annotation
- 3. The <context:component-scan> tag enable them
- 4. The <context:annotation-config > tag enable them
- 5. Declaring the CommonAnnotationBeanPostProcessor enable them

Question 7

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

- 1. In a web application
- 2. In an integration test running with the SpringJUnit4ClassRunner
- 3. In a standalone application started with a main method
- 4. None of the above

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");

- 1. The classpath: prefix could be omit
- 2. Package name with dot is not well formatted using the dot character
- 3. The slash character preceding com.example could be omit
- 4. All of the above
- 5. None of the above

Question 9

How to auto-inject into a field a bean by its name? Select one or more response.

- 1. With the name attribute of the @Autowired annotation
- 2. By using the single @Qualifier annotation
- 3. By using both the @Autowired and the @Qualifier spring annotations
- 4. By using the @Autowired annotation and naming the field with the bean name

Question 10

What are the main advantages of using interfaces when designing business services? Select one or more answers.

- 1. Mocking or stubbing the service
- 2. Be able to use the Spring auto-injection
- 3. Can do dependency checking
- 4. Loosely coupled code

Question 11

Select one or many correct answers about spring bean life cycle.

- 1. The method annoted with @PostConstruct is called after bean instantiation and before properties setting of the bean
- 2. The method @PreDestroy of a prototype bean is called when the bean is garbage collected
- 3. The init() method declared in the init-method attribute of a bean is called before the afterPropertiesSet callback method of the InitializingBean interface
- 4. The method annotated with @PostConstruct is called before before the afterPropertiesSet callback method of the InitializingBean interface

Question 12

Given the following configuration class, what are correct affirmations? Select one or more answers.

```
public class ApplicationConfig {
    private DataSource dataSource;

    @Autowired
    public ApplicationConfig(DataSource dataSource) {
        this.dataSource = dataSource;
    }

    @Bean(name="clientRepository")
    ClientRepository jpaClientRepository() {
        return new JpaClientRepository();
    }
}
```

- 1. @Configuration annotation is missing
- 2. Default or no-arg constructor is missing
- 3. @Bean name is ambiguous
- 4. @Bean scope is prototype

What are the features of the XML <context: namespace? Select one or many answers.

- 1. @Transactional annotation scanning
- 2. @Aspect annotation detection enabling
- 3. @Autowired annotation enabling
- 4. @Component annotation scanning

Test

Question 14

Select one or more correct statements about developing integration test with Spring support.

- 1. A new Spring context is created for each test class
- 2. To get a reference on the bean you want to test, you have to call the getBean() method of the Spring context
- 3. Spring context configuration could be inherits from the super class
- 4. The Spring context configuration file has to be provided to the @ContextConfiguration annotation

Question 15

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

- 1. Reuse Spring configuration files of the application
- 2. Create mock or stub
- 3. Be able to use the rollback after the test pattern
- 4. Use dependency injection

What are the main advantage(s) for using Spring when writing unit tests?

- 1. Reuse Spring configuration files of the application
- 2. Use dependency injection
- 3. Provide some mocks for servlet classes
- 4. All of the above
- 5. None of the above

Question 17

What is right about the spring test module?

- 1. It provides an abstraction layer for the main open source mock frameworks
- 2. Provides the @Mock annotation
- 3. It dynamically generates mock objects
- 4. All of the above
- 5. None of the above

Question 18

Select correct statement(s) about transactional support of the spring test module.

- 1. Transaction manager could be set within the @TransactionConfiguration annotation
- 2. Method annotated with @Before is executed outside of the test's transaction
- 3. Spring test may rollback the transaction of a service configured with the REQUIRES_NEW propagation
- 4. The transaction of a method annotated with the @Rollback annotation with its default values is rolled back after the method has completed

AOP

Question 19

Considering 2 classes AccountServiceImpl and ClientServiceImpl. Any of these 2 classes inherits from each other. What is the result of the pointcut expressions?

```
execution(* *..AccountServiceImpl.update(..))
&& execution(* *..ClientServiceImpl.update(..))
```

- 1. Matches pubic update methods of the 2 classes, whatever the arguments
- 2. Matches any update methods of the 2 classes , whatever the arguments and method visibility
- 3. Matches any update methods of the 2 classes , with one more arguments and whatever method visibility
- 4. No joint point is defined

Using the Spring AOP framework, what is the visibility of the method matches by the following join point?

```
@Pointcut("execution(* *(..))")
private void anyOperation() {};
```

- 1. All methods, whereas there visibility
- 2. All methods, except private method
- 3. Protected and public methods
- 4. Public methods

Question 21

What are the 2 correct statements about AOP proxy?

- 1. AOP proxies are created by Spring in order to implement the aspect contracts
- 2. AOP proxies are always created with a JDK dynamic proxy
- 3. Only classes that implements a least one interface could be proxied
- 4. All methods could be proxied
- 5. Proxies are created by a BeanPostProcessor

Question 22

What is an after throwing advice? Select a unique answer.

- 1. Advice that could throw an exception
- 2. Advice to be executed if a method exits by throwing an exception
- 3. Advice that executes before a join point
- 4. Spring does not provide this type of advice

Question 23

What is an after returning advice? Select a unique answer.

- 1. Advice to be executed regardless of the means by which a join point exits
- 2. Advice that surrounds a method invocation and can perform custom behavior before and after the method invocation
- 3. Advice to be executed before method invocation
- 4. Advice to be executed after a join point completes without throwing an exception

Question 24

What is an advice? Select a unique answer.

- 1. An action taken by an aspect at a particular join point
- 2. A point during the execution of a program
- 3. An aspect and a pointcut
- 4. A predicate that matches join points

What is a pointcut? Select a unique answer.

- 1. Code to execute at a join point
- 2. An expression to identify joinpoints
- 3. An advice and a jointpoint
- 4. None of the above

Question 26

Select method's signatures that match with the following pointcut:

execution(* com.test.service..*.*(*))

- 1. void com.test.service.MyServiceImpl#transfert(Money amount)
- 2. void com.test.service.MyServiceImpl#transfert(Account account, Money amount)
- 3. void com.test.service.account.MyServiceImpl#transfert(Money amount)
- 4. void com.test.service.account.MyServiceImpl#transfert(Account account, Money amount)
- 5. None of the above

Question 27

What are the unique correct answers about Spring AOP support?

- 1. An advice could proxied a constructor's class
- **2.** A point cut could select methods that have a custom annotation
- 3. Static initialization code could be targeted by a point cut
- 4. Combination of pointcuts by &&, || and the ! operators is not supported

Question 28

Using the Spring AOP framework, what are the joinpoint methods of the following pointcut expressions?

execution(public * *(..))

- 1. The execution of all public method
- 2. The execution of all public method returning a value
- 3. The execution of all public method having at least one parameter

4. The execution of all public method in class belonging to the default java package

Data Access

Question 29

Why is it a best practice to mark transaction as read-only when code does not write anything to the database? Select one or more answers.

- 1. It is mandatory for using Spring exception translation mechanism
- 2. May be improve performance when using Hibernate
- 3. Spring optimizes its transaction interceptor
- 4. Provides safeguards with Oracle and some other databases

Question 30

What data access technology is supported by the Spring framework? Select one or more answers.

- 1. JDBC
- 2. NoSQL
- 3. Hibernate
- 4. JPA

Question 31

What is not provided by the JdbcTemplate? Select a unique answer.

- 1. Data source access
- 2. Open/close data source connection
- 3. JDBC exception wrapping into DataAccess Exception
- 4. JDBC statement execution

Question 32

Using JdbcTemplate, what is the Spring provided class you will use for result set parsing and merging rows into a single object? Select a unique answer.

- 1. RowMapper
- 2. RowCallbackHandler
- 3. ResultSetExtractor
- 4. ResultSetMapper

Question 33

What configuration is supported by the LocalSessionFactoryBean? Select a unique answer.

- 1. Listing entity classes annoted with @Entity
- 2. Scanning a package to detect annoted entity classes (with @Entity)
- 3. Listing hibernate XML mapping configuration file (.hbm.xml)

4. All above

Transaction

Question 34

What is/are incorrect statements about XML declaration of the transaction manager bean? Select one or more answers.

- 1. The tx namespace provides JTA transaction manager declaration shortcut syntax
- 2. Id of the bean has to be transactionManager
- 3. Depending the application persistence technology, the HibernateTransactionManager or the DataSourceTransactionManager could be used as bean class
- 4. Default transaction timeout could be given

Question 35

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
}
```

- 1. The add() method executes code in a new transaction
- 2. The add() method uses the transaction of the transferMoney() method
- 3. When calling the add() method, an exception is thrown
- 4. Other behavior

Question 36

Does Spring provides programmatic transaction management? Select a unique answer.

- 1. Yes with the TransactionTemplate class
- 2. Yes with the TransactionService class
- 3. Yes using the @Transactional bean post processor
- 4. No

What is the transaction behavior of the PROPAGATION_REQUIRES_NEW mode? Select a unique answer.

- 1. 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.
- 2. 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.
- 3. 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.
- 4. None of the above

Question 38

What is the default rollback policy in transaction management?

- 1. Rollback for any Exception
- 2. Rollback for RuntimeException
- 3. Rollback for checked exceptions
- 4. Always commit

Sping @MVC

Question 39

What could not return a Spring MVC controller? Select a single answer.

- 1. An absolute path to the view
- 2. A logical view name
- 3. A new JstlView
- 4. void
- 5. null value

Question 40

Where do you cannot declare Spring MVC controller? Select one or more answers.

- 1. In a Spring application context XML configuration file
- 2. Into the web.xml file of the web application
- 3. Into the java code by using annotations
- 4. Into the JSP pages

What is the easiest method to write a unit test?

- 2. void displayAccount(HttpServletRequest req, HttpSession Session) throws ServletException, IOException
- 3. @RequestMapping("/displayAccount")
 String displayAccount(@RequestParam("accountId") int id, Model model)
- 4. @RequestMapping("/displayAccount")
 String displayAccount(@PathVariable("accountId") int id, Model model)

Spring Security

Question 42

How could you secure MVC controller with Spring Security? Select a unique answer.

- 1. With the @Secured annotation
- 2. With the @RolesAllowed annotation
- 3. In a XML security configuration file
- 4. All of the above
- 5. None of the above

Question 43

What are the possible mechanisms provided by Spring Security to store user details? Select one or more correct answers.

- 1. Database
- 2. JAAS
- 3. LDAP
- 4. Properties file

Question 44

What is true about Spring security configuration and the security namespace? Select one or more correct answers.

1. The access attribute of the intercept-url tag support both EL and constants together.

- 2. The patterns declared into the intercept-url tag are analyzed from up to bottom. Winning is the first that matches.
- 3. The patterns declared into the intercept-url tag use by default the java regex syntax.
- 4. Security rules may applied depending request parameter

Remoting

Question 45

What do you have to do even if you are using the RMI Spring Remoting support? Select one or more correct answers.

- 1. Implements the Remote interface
- 2. Extends the RemoteObject class
- 3. Catching the RemoteException exception
- 4. Implements the Serializable interface

Question 46

What is exact about the HttpInvokerServiceExporter? Select one or more correct answers.

- 1. Has to run into a HTPP server as Jetty
- 2. Could process both POST and GET requests
- 3. Could be used with any http client as Jakarta Commons HttpClient
- 4. Could consume SOAP http request

JMS

Question 47

What is the method that is not provided by the JmsTemplate Spring class?

- 1. convertAndSend
- 2. onMessage
- 3. receiveAndConvert
- 4. setDefaultDestination

Question 48

How could you implement a JMS Listener using the Spring JMS support? Select one or more correct answers.

- 1. By implementing the javax.jms.MessageListener interface
- 2. By implementing the SessionAwareMessageListener interface provided by Spring
- 3. Without any code, only using the jms namespace provided by Spring
- 4. By writing a single POJO without parent class or interface

JMX

Question 49

What is easier to do by using Spring JMS support? Select one or more correct answers.

- 1. Register any Spring bean as JMX MBean
- 2. Register an existing MBean with a MBeanServer
- 3. Accessing to remote MBean
- 4. Control the attributes and the operations of a Spring bean exposes as a MBean

Question 50

What is the purpose of the @ManageResource annotation? Select a single answer.

- 1. Expose a bean's property (getter/setter) to JMX
- 2. Expose a bean's method to JMX
- 3. Identify a Spring bean as a JMX MBean
- 4. None of the above

Response

Container

Question 1

Answer 2 is correct. Those beans are anonymous because no id is supplied explicitly. Thus Spring container generates a unique id for that bean. It uses the fully qualified class name and appends a number to them. However, if you want to refer to that bean by name, through the use of the ref element you must provide a name (see Naming Beans section of the Spring reference manual). To be correct, the 2nd bean has to declare a jpaDao id attribute in order to be reference by the repository property of the first bean.

Question 2

Answers 1 and 4 are correct.

- To set bean's property with the p:propertyName shortcut, you have to declare the http://www.springframework.org/schema/p in your xml configuration file. No xsd is required.
- The bean is anonymous. Spring generates a unique id: com.spring.service.BankServiceImpl#0
- 3. To reference another bean with the p namespace, you have to use the p:propertyName-ref syntax
- 4. Due to the above explanation, NationalBank is not a bean reference, so it is a simple String and thus a scalar value.

Question 3

Correct answer is 3.

The @Bean annotation defines a String bean with the id "clientRepository". JpaClientRepository is the implementation class of the bean. The data source is injected and is not declared in this class.

Question 4

The only possible answer is the number 3.

- 1. The <util:constant static-field="constant name"/> tag enables to reference a Java constant or enumeration into a spring configuration file
- 2. ConstantPlaceholderConfigurer does not exist. You may think about the PropertyPlaceholderConfigurer bean post processor.
- 3. The <context:property-placeholder location="file:/myApp.properties" /> tag activates the replacement of \${...} placeholders, resolved against the specified properties file.
- 4. The c: namespace is for simplifying constructor syntax (since Spring 3.1) and don't provide such feature.

The statements number 5 is right.

- 1. You may auto-wiring properties by constructor, setter or properties in the same bean
- 2. The <constructor-arg> tag helps to instanciated a bean without default or no-args constructor
- 3. The <constructor-arg> tag could take type and index to reduce ambiguity, but not name which requires debug symbols.

Question 6

Answers 1, 3, 4 and 5 are rights.

- 1. The @PostConstruct, @PreDestroy and @Resource annotations are defined in the JSR-250
- 2. They belong to the javax.annotation package. You should add an external jar to use them in Java 5. Java 6 and 7 integrates them.
- 3. The <context:component-scan> automatically detects stereotyped classes and turns on the <context:annotation-config>
- 4. The <context:annotation-config > activates the Spring infrastructure for various annotations to be detected in bean classes, including the JSR 250 annotations
- **5.** The CommonAnnotationBeanPostProcessor supports common Java annotations out of the box, in particular the JSR-250 annotations.

Question 7

Correct answer in the number 3.

- 1. In a web application, the ContextLoaderListener is in charge to create an WebApplicationContext.
- 2. In an integration test based on Spring, the SpringJUnit4ClassRunner creates the application context for you. The @ContextConfiguration annotation allows to specified application context configuration files.
- 3. In a main method, you have to instanciated a class implementing the ApplicationContext interface (examples: ClassPathXmlApplicationContext or FileSystemXmlApplicationContext)

Question 8

Answer number 4 is right.

- 1. When using the ClassPathXmlApplicationContext, the classpath: prefix is default one so you could omit it
- 2. In a Spring location resource, package separator is a slash and not a dot. Thus the com/example/myapp/config.xml syntax has to be used.
- 3. ClassPathXmlApplicationContext starts looking from root of the classpath regardless of whether specify "/"

Question 9

Answers number 3 and 4 are valid.

- 1. The @Autowired annotation has no name property, just a required one.
- 2. Autowiring a field, the @Inject or the @Autowired or the @Resource annotations are mandatory.
- 3. The @Qualifier("name") annotation complements the use of the @Autowired annotation by specifying the name of the bean to inject
- 4. When 2 beans are eligible to auto-injection, Spring uses the field name to select the appropriate one.

Answers number 1 and 4 are valid.

- With modern mock API like Mockito or EasyMock, interfaces are not mandatory for mocking or stubbing the service. But using interface remains easier when you have to manually mock the service in unit test.
- 2. Auto-injection is possible with class. Spring uses CGLIB.
- 3. Dependency checking is an advantage of dependencies injection.
- 4. The Inversion of Control pattern requires an interface to separate 2 classes. This pattern provides code more flexible, unit testable, loosely coupled and maintainable.

Question 11

Correct answers: 4

- 1. In the bean lifecycle, method annotated with @PostConstruct is called after the properties set step and the BeanPostProcessors#postProcessBeforeInitialization step
- 2. Destroy methods of prototype beans are never called
- 3. In the bean lifecycle, the afterPropertiesSet callback method of the InitializingBean is called after the method annotated with the @PostConstruct annotation and before the init-method declared in the XML configuration file.
- 4. In the bean lifecycle, the method annotated with the @PreDestroy annotation is called before the destroy callback of the DisposableBean interface and before the destroy-method declared in the XML configuration file.

Question 12

Correct answers are 1 and 2.

- 1. In order to be taken into account by Spring, the ApplicationConfig class has to be annotated with the @Configuration annotation
- 2. Default or no-arg constructor is mandatory. Here, the provided constructor with a dataSource parameter is not taken into account
- 3. The bean name is clientRepository. The name property of the @Bean annotation is specified thus the method name jpaClientRepository is ignored.

4.

Correct answers are 3 and 4

- 1. Use <tx:annotation-driven /> to enable @Transactional annotation scanning
- 2. Use <aop:aspectj-autoproxy /> to enable detection of @Aspect bean
- Turns on <context:annotation-config /> or <context:component-scan /> to enable@Autowiring annotation
- 4. Turns on <context:component-scan /> to enable @Component annotation scanning

Test

Question 14

The only correct answer is number 3.

- 1. The Spring context is cached across tests unless you use @DirtiesContext annotation
- 2. With the Spring test module, dependency injection is available in test case. So you may autowired the bean to test
- 3. By default, a @ContextConfiguration annoted class inherits the spring context configuration file locations defined by an annotated superclass. The inheritLocations of this attribute allows to change this default behavior.
- 4. If no context configuration file is provided to the @ContextConfiguration annotation, Spring use a file convention naming. It try to load a file named with the test class name and suffices by the "-context.xml" suffice (i.e. MyDaoTest-context.xml)

Question 15

Correct answers are 1, 3 and 4.

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

- 1. More than testing multiple classes together, integration test may allow to test your spring configuration file and/or to reuse it.
- 2. Mocking or stubbing is more frequent in unit tests than in integration tests. And Spring does not provide any implementation or abstraction of mock framework.
- 3. The framework may create and roll back a transaction for each test method. Default rollback policy could be change by using the @TransactionConfiguration annotation. And default mode could be overridden by the @Rollback annotation.
- 4. DependencyInjectionTestExecutionListener provides support for dependency injection and initialization of test instances.

Question 16

The correct answer is the number 3.

What are the main advantage(s) for using Spring when writing unit tests?

- 1. You don't need Spring container to writer unit test
- 2. Refer to the answer number 1.
- 3. The org.springframework.mock package provides mock classes like MockHttpSession or MockHttpContext. They could be helpful for unit test in the presentation layer and when you don't use any mock framework such as Mockity or EasyMock.

Question 17

Answer 5 is correct.

What is right about the spring test module?

- 1. The spring test module does not provide an abstraction layer for open source mock frameworks like EasyMock, JMock or Mockito
- 2. The @Mock annotations comes from the Mockito framework
- 3. The spring test module does not provide mechanism to generate mock objects at runtime

Question 18

Correct statements are number 1 and 4.

- 1. The transactionManager property of the @TransactionConfiguration annotation enable to set the bean name of the PlatformTransactionManager that is to be used to drive transactions.
- 2. Method annotated with @Before is executed inside the test's transaction. You have to use the @BeforeTransaction to execute code outside the test's transaction.
- 3. The REQUIRES_NEW propagation suspends the current test's transaction then creates a new transaction that will be used to execute the service. A commit at the service level could not be changed by the test.
- 4. The transaction for the annotated method should be rolled back after the method has completed.

AOP

Question 19

The correct answer is the number 4.

Considering 2 classes AccountServiceImpl and ClientServiceImpl. Any of these 2 classes inherits from each other. What is the result of the pointcut expressions?

```
execution(* *..AccountServiceImpl.update(..))
&& execution(* *..ClientServiceImpl.update(..))
```

Poincut expression could not satisfied both first and second execution point. Do not confuse the && operator and || operator.

Correct answer is the number 4.

Due to the proxy-based nature of Spring's AOP framework, protected methods are by definition not intercepted, neither for JDK proxie nor for CGLIB proxies. As a consequence, any given pointcut will be matched against public methods only!

To intercept private and protected methods, AspecJ weaving should be used instead of the Spring's proxy-bases AOP framework.

Question 21

The 2 correct statements are 1 and 5.

What are the 2 correct statements about AOP proxy.

- 1. An object created by the AOP framework in order to implement the aspect contracts
- 2. If the target object does not implement any interfaces then a CGLIB proxy will be created. You could also use CGLIB proxy instead of JDK dynamic proxy
- 3. If the target object does not implement any interfaces then a CGLIB proxy will be created.
- 4. When CGLIB proxy is used, final methods cannot be advised, as they cannot be overridden.
- 5. AOP Proxies are created by the AbstractAutoProxyCreator#postProcessAfterInitialization method.

Question 22

The answer number 2 is correct.

- 1. A before advice could throw an exception
- 2. An after throwing advice is executed if a method exits by throwing an exception
- 3. An advice that executes before a join point is named a before advice
- 4. Spring supports after throwing advices

Question 23

Correct answer: 4

- 1. This is an after (finally) advice
- 2. This is an around advice
- 3. This is a before advice
- 4. True

Question 24

Correct answer: 1

- 1. Definition of an advice
- 2. Definition of a joint point
- 3. Represents nothing
- 4. Definition of a point cut

Correct answer: 2

- 1. Definition of an advice
- 2. Definition of a pointcut
- 3. Represents nothing

Question 26

Correct answers: 1, 3

Select methods that match with the following pointcut:

execution(* com.test.service..*.*(*))

- 1. True
- 2. The pattern (*) matches a method taking one parameter of any type
- 3. The com.test.service.account sub-package matches the pointcut
- 4. False for the same reason as answer number 2.

Question 27

Correct answers: 2

- 1. Interception of constructors requires the use of Spring-driven native AspectJ weaving instead of Spring's proxy-based AOP framework
- 2. The @annotation designator enables to select methods that are annotated by a given annotation
- 3. The staticinitialization AspectJ designator is not supported by Spring AOP
- 4. Pointcut expressions can be combined using &&, || and !

Question 28

Correct answers: 1

- 1. The execution of all public method
- 2. The * return type pattern indicates any return value or void
- 3. The (..) param pattern indicates 0, 1 or many parameters

4. No package name is specified. So classes of any package could match.

Data Access

Question 29

Correct answers: 2, 4

- 1. Spring exception translation mechanism has nothing to do with read-only transaction
- 2. Read-only transaction prevents Hibernate from flushing its session. Hibernate do not do dirty checking and it increases its performance.
- No
- 4. When jdbc transaction is marked as read-only, Oracle only accepts SELECT SQL statements.

Question 30

Correct answers: 1, 3, 4

- 1. JDBC is supported: JdbcTemplate, JDBCException wrapper ...
- 2. Some NoSQL databases are supports through the Spring Data project
- 3. Hibernate is supported: HibernateTemplate, AnnotationSessionFactoryBean ...
- 4. JPA is supported: LocalEntityManagerFactoryBean, @PersistenceContext annotation support

Question 31

Correct answer: 1

- 1. A JdbcTemplate requires a DataSource as input parameters
- 2. JdbcTemplate uses the probided datasource to open then close a JDBC connection
- 3. Callback methods of JdbcTemplate throw SQL Exception and Spring converts into DataAccessException
- 4. For example, the queryForInt method executes an SQL statement

Question 32

Correct answer: 3

- 1. RowMapper: result set parsing when need to map each row into a custom object
- 2. RowCallbackHandler: result set parsing without returning a result to the JdbcTemplate caller
- 3. ResultSetExtractor: for result set parsing and merging rows into a single object
- 4. ResultSetMapper: this class does not exist

Correct answer: 3

- 1. False. This is supported by the AnnotationSessionFactoryBean using annotedClasses
- 2. False. This is supported by the AnnotationSessionFactoryBean using packagesToScan
- 3. True using mappingLocations
- 4. False

Transaction

Question 34

Correct answer: 2

- 1. <tx:jta-transaction-manager />
- 2. Id of the transaction manager bean could be customized (ie. txManager)
- 3. DataSourceTransactionManager is a transaction manager for a JDBC data source. HibernateTransactionManager may be used to manage transaction with Hibernate.
- 4. The AbstractPlatformTransactionManager has a defaultTimeout property that could be customized

Question 35

Correct answer: 2

In proxy mode, only external method calls coming in through the proxy are intercepted. In the code snippet, the add() method is self-invocated. This means that, the @Transactional annotation of the add() method is not interpreted. The REQUIRES_NEW propagation level is not taken into account. To summary, when the transferMoney() methods calls add() method directly, the transaction attributes of add() method are not used

Question 36

Correct answer: 1

- 1. The TransactionTemplate class provides an execute(TransactionCallback) method
- 2. The TransactionService class does not exists
- 3. The @Transactional annotation is for declarative transaction management

Question 37

Correct answer: 3

- 1. PROPAGATION REQUIRED
- 2. PROPAGATION_NESTED
- 3. PROPAGATION REQUIRES NEW

Correct answer: 2

- 1. False.
- 2. True
- 3. False
- 4. False

Sping @MVC

Question 39

Correct answer: 1

- 1. Spring does not allow to return an absolute path to the view
- 2. Controller could return a String that matches with a logical view name
- 3. A JstlView with the .jsp path (i.e. /WEB-INF/accountList.jsp)
- 4. void forward to the default view
- 5. null forward to the default view

Question 40

Correct answer: 2, 4

- 1. Spring MVC controllers are beans. So you can declare them into a Spring application context XML configuration file that could be loaded by the DispatcherServlet.
- 2. In the web.xml, you may declarer and a ContextLoaderListener and a DispatcherServlet that are in charge to load XML Spring configuration files. But you cannot declare controllers directly in these file.
- 3. The @Controller annotation may be used to annoted Spring MVC Controller beans that handle HTTP requests.
- 4. JSP is the View of the MVC Pattern. Thus this is not the right place to declare controllers.

Question 41

Correct answer: 3

- 1. HttpServletRequest and HttpServletResponse have to be mocked. Id of the account to display could be set into the http request parameters.
- **2.** HttpServletRequest and HttpSession have to be mocked. Id of the account to display could be set into the http request parameters.
- **3.** This method is not dependent of the servlet API. Id of the account to display may be directly passed through the call stack. Thus test methods are simplified.

4. The *@PathVariable* annotation has to be bound to a URI template variable. This is not the case.

Sping Security

Question 42

Correct answer: 4

- 1. @Secured annotation is a Spring Security annotation
- 2. @RolesAllowed is a JSR-250 annotation that is supported by Spring Security
- 3. Spring Security could be configured in a XML way to intercept particular URLs

Question 43

Correct answer: 1, 2, 3 and 4

Question 44

Correct answer: 2

- 1. You cannot mix EL and constant in the same configuration file
- 2. If more than one intercept-url matches, the top one is used
- 3. Ant pattern is used by default. But you can change to use regular expression.
- 4. Security rules may apply to request URL, request method (GET, POST ...) but not to request parameters.

Remoting

Question 45

Correct answer: 4

- 1. No more interface to implement. RMI Client and Server could be POJO.
- 2. No more class to extend. RMI Client and Server could be POJO.
- 3. Spring Remoting wraps the cheched RemoteException into RuntimeException.
- 4. Object that are transferred via RMI are serializabled/unserializabled. So they have to implement the Serializable interface.

Correct answers: 1, 3

HttpInvokerServiceExporter requires a HTTP web server to process incoming http request.
 Tomcat or Jetty is possible candidates. Spring also supports the Oracle/Sun's JRE 1.6 HTTP

server.

2. Only the POST method is supported. Maybe due to the 256 characters limit of the GET

method.

3. Spring comes with 2 http client implementations: for Commons HttpClient and classic JavaSE API. You can create a custom one by extending the AbstractHttpInvokerRequestExecutor

class.

4. Does not support SOAP web service. Use the Spring web service module or use the JAX-WS

or JAX-RPC remoting support.

JMS

Question 47

Correct answer: 2

1. The convertAndSend method sends a given object to a destination, converting the object to

a JMS message.

2. The onMessage method does not exist.

3. The receiveAndConvert method receives a message synchronously then convert the

message into an object

4. The setDefaultDestination method sets the destination to be used on send/receive

operations that do not have a destination parameter.

Question 48

Correct answers: 1, 2, 4

1. The javax.jms.MessageListener interface could be used with the

Simple Message Listener Container

2. The SessionAwareMessageListener interface could be used with

 $Default Message Listener Container\ and\ Simple Message Listener Container$

3. Business code is required to handle and process the JMS message.

4. A JMS Listener could be a POJO. The name of the handler method to invoke has to be

specified in the <jms:listener /> tag.

IMX

Question 49

Correct answers: 1, 2, 3, 4

1. The MBeanExporter class allow to expose any Spring bean as a JMX MBean

2. Exiting MBean could be declared as Spring bean. Then the <context:mbean-export />

directive enables their registration to the MBeanServer

- 3. Remote MBean could be access through a proxy
- 4. Implementations of the MBeanInfoAssembler interface do the job

Correct answer: 3

- 1. @ManageAttribute exposes a bean's property (getter/setter) to JMX
- 2. @ManageOperation exposes a bean's method to JMX
- 3. @ManageResources identify a Spring bean as a JMX MBean