

1. If you want to delete user details using JDBC API , which of the following is correct?

- A: Statement with executeUpdate()
- B: Statement with executeQuery(sql)
- C: PreparedStatement with executeUpdate(sql)
- D: PreparedStatement with executeUpdate()

2. How to deploy a web application listener within web application ?

Answer Choices

- A: Using <listener> tag in web.xml
- B: Using <web-listener> tag
- C: Using @WebListener annotation
- D: A or C

3. How many ServletConfig & ServletContext objects will be created by web container?

- A Only single one per entire web server.
- B One per servlet & one per web application
- C. One per context & one per application
- D One per every servlet.

4. Consider following 2 servlets.

```
@WebServlet(value="/s1",loadOnStartup=1)
```

```
public class FirstServlet extends HttpServlet {...}
```

```
@WebServlet(value="/s2")
```

```
public class SecondServlet extends HttpServlet {...}
```

Which of the following is true ?

- A. Web container doesn't invoke init method of the second servlet.
- B Web container invokes init method of the second servlet at web app start up.
- C. Web container invokes init method of the first servlet at web app start up.
- D. Web Container starts life cycle of the first servlet , after client request.

5. Which of the following attributes are inherently thread un safe ?

- A. Page Scoped attributes
- B. Request scoped attributes
- C. Session scoped attributes
- D. Application scoped attributes

6. What will be output , if client sends the following request to test1.jsp ?

http://host:port/test_web/test1.jsp?pid=101&type=electronic&name=tv

test1.jsp

<body>

Product Details are :

<jsp:forward page="test2.jsp"/>

</body>

test2.jsp

<body>

Name : \${param.name}

Type : \${requestScope.type}

</body>

A. Product Details are :

Name : tv

Type : electronic

B. Name : tv

Type : electronic

C. Product Details are :

D. Name : tv

Type :

7. To execute a stored procedure or a stored function in JDBC , what will you use ?

A. Statement with executeQuery

B. PreparedStatement with executeUpdate

- C. CallableStatement with execute
- D. PreparedStatement with executeQuery

8. Default type of ResultSet is

- A. TYPE_FORWARD_ONLY & updatable
- B. scrollable & updatable
- C. TYPE_FORWARD_ONLY & read only
- D. scrollable & read only

9. While using request chaining scenario in page navigation , which should be minimum scope of server side attributes?

Answer Choices

- A: page scope
- B: request scope
- C: session scope
- D: application scope.

10. Which of the following is not accessible via EL syntax

- A. pageContext
- B. sessionScope
- C. param
- D. session

11. Which of the following is the default behavior of Spring Security

- A. Form Login
- B. Basic Authentication Scheme
- C. Automatic generation of random password on console
- D. All of above

12. If you want to achieve complete DB normalization as per Object world , which JPA inheritance strategy will you choose ?

Answer Choices

A: MappedSuper

B: Single Table inheritance

C: Joined Table inheritance

D: None of above

13. If you want to skip a field or a property during serialization but add it during de serialization , in RESTful web service , what will you use?

A. @JsonProperty(access=ACCESS.WRITE_ONLY)

B. @JsonProperty(access=ACCESS.READ_ONLY)

C. @JsonProperty

D. @JsonSerialize

14. In Hibernate , many to many association , which if the following is true ?

A. Most optimized type of collection is List

B. This type of association can be configured as uni directional only.

C. This type of association can be configured as bi directional only.

D. The default fetch type of this type of association is lazy.

15. Which of the following is true regarding Spring container?

Answer Choices

A: It will start the life cycle of prototype bean , only on demand.

B: In a standalone application , you can't launch a spring container

C: Spring container can support only setter based dependency injection

D: It will inject all the dependencies after init method

16. Spring supports

A. Automatic wiring of beans using byType

B. Automatic wiring of beans using byName

C. Automatic wiring of beans using constructor

D. All of above

17. In Front Controller based MVC , what is the role of front controller?

A.Business Logic

B. Presentation Logic

C Centralized dispatcher

D UI

18. What will happen in the following hibernate code, if user id is annotated with @Id & @GeneratedValue?

```
User u=new User("Ravi","Sethi","ravi@gmail.com");
```

```
u.setId(10);
```

```
//session : org.hibernate.Session
```

```
session.persist(u);
```

```
//tx : org.hibernate.Transaction
```

```
tx.commit();
```

A. A new record will be saved with user id=10;

B. Throws PersistentObjectException

C. A new record will be inserted using auto incremented id.

D. No change in DB.

19 . In a bi directional one-to-many association , what will happen if mappedBy attribute is not specified?

A. Hibernate will not create the tables automatically.

B. Hibernate will throw MappingException

C. Hibernate will create additional table , having PKs of both the tables.

D. None of the above.

20. What will happen for the following code , when you bootstrap hibernate?

```
@Entity
```

```
public class Stock
```

```

{
@Id
private Integer id;
@Column(unique=true)
private String code;
@Transient
private String stockDesc;
//all getters n setters are provided.
}

```

- A. Table creation will fail.
- B SessionFactory creation will fail
- C. Table will be created with only id & code columns.
- D. Table will be created with id ,code & stockDesc columns

21. In many-to-many relationship between Book & Author,

Consider JPQL = "select a from Author a where a.name=:name";

Suppose session was opened using `getCurrentSession` , query is executed, author object is returned in `a1` & transaction is committed.

Afterwards , if you access `System.out.println(a1.getBooks())` , what will happen?

- A. select query will be fired on author & books table
- B. Hibernate throws `LazyInitializationException`
- C. Will display the book details by a specified author.
- D. Will only display author details.

22. Which of the following is true?

- A. L2 cache is implicitly enabled in hibernate.
- B. Query level cache is implicitly enabled in hibernate.
- C L1 cache is implicitly enabled in hibernate.
- D. All of above

23. What can be said regarding `saveOrUpdate` method of hibernate?

- A. It can cause a transition from transient to persistent entity.
- B. It cause a transition from detached to persistent entity
- C A & B
- D It causes a transition from persistent to detached entity.

24. What will be happen in the following hibernate code sample, if account a with id=100 exists in DB , with balance=5000?

```
Session hs=factory.getCurrentSession();  
BankAccount a=hs.get(BankAccount.class,100);  
a.setBalance(7000);  
tx.commit();  
a.setBalance(8000);
```

- A. Account balance will still be 5000
- B. balance will be 7000
- C. balance will be 8000
- D. Runtime exception is thrown

25. Which default fetching policy JPA uses for one-to-one & one-to-many?

- A. Eager & Lazy
- B. Lazy & eager
- C Eager & eager
- D. Lazy & Lazy

26. In spring hibernate based web application , what can you say regarding Session's load method ?

Answer Choices

- A: Returns a proxy by default
- B: Returns null , if entity is not found
- C: load method is un supported
- D: load method will always use eager fetching policy.

27. In a many to many mapping , how will you specify the name of association table , containing composite primary key ?

Answer Choices

- A: @ManyToMany
- B: @LinkTable
- C: @JoinTable
- D: @CollectionTable

28. In a spring application class , which of the following is not a part of @SpringBootApplication ?

- A. @Configuration
- B. @EnableAutoConfiguration
- C. @EnableWebMvc
- D. @ComponentScan

29 How will you create composite primary key class in JPA or hibernate ?

- A. @Embeddable
- B. @Entity
- C. @Id
- D. @EmbeddedId

30. Whic of the following is true regarding servlet filters?

- A. Filters are loaded lazily by Web Container
- B. Multiple instances of filters are created by Web Container per client
- C. Typical use case of filters is to write core business logic
- D. Typical use case of filters is to write cross cutting concern.

31. What will you propose to avoid SQL injection attack ?

- A. Use PreparedStatement API to set IN parameters.
- B. Use Statement API to set IN parameters.
- C. Use connection pooling instead of fixed connectivity
- D. A developer can't avavoid SQL injection attack

32. Which of the following is true regarding Spring security ?

- A. For Restful web services use session ID based tokens
- B. Payload part of JWTs can't be decoded by a man in middle
- C. In JWTs , signature is the mandatory part of the token
- D. If a hacker tampers with JWT , Restful web service will detect invalid JWT signature.

Answer keys :

- 1. D
- 2. D
- 3. B
- 4. C
- 5. D
- 6. D
- 7. C
- 8. D
- 9. B
- 10. D
- 11.D
- 12.C
- 13.A
- 14.D
- 15.B
- 16.D
- 17. C
- 18. B
- 19. C
- 20. C
- 21. B

22. C

23. C

24. B

25. A

26. A

27. C

28. C

29. A

30. D

31. A

32. D