Mock JAVA

1. Which of the below statement is true?

A. Lambda expression cannot be returned as a result.
B. Functional interface can declare one or more abstract method.
C. Java 8 Streams API increases the complexity of coding.
D. Java 8 new class Optional protect us against NullPointerExceptions.

2. Constructors _____

A. have return type
B. can be inherited
C. can't be inherited
D. None of the above

3. Find correct output

```
class Employee {
  static {
      System.out.println("static block");
  }

  Employee() {
      System.out.println("Employee constructor");
  }
}
public class StaticExample {
  public static void main(String[] args) {
      System.out.println("Program Started");
      new Employee();
      System.out.println("Program Terminated");
  }
}
```

A. Program Started
   static block
   Employee constructor
   Program Terminated

B. static block
   Program Started
   Employee constructor
   Program Terminated

C. Program Started
   Employee constructor
   static block
    Program Terminated

D. Employee constructor
   static block
   Program Started
   Program Terminated

4. Which of the following statement is true about Local classes?

A. Local classes can declare static final variables.
B. Local classes can declare static member functions.
C. Local classes can declare interfaces.
D. All of above.

5. Which of these field declarations are valid within body of an interface ?
a. public static int answer = 5;
b. int answer;
c. final static int answer = 5;
d. public int answer = 5;
e. private final static int answer=5;

A. a,b,e
B. a,c,d
C. b,a,c
D. a.c.e

6. What is the output of this program?

```
class exception_handling {
    public static void main(String args[]) {
        try {
            int a[] = {1, 2,3 , 4, 5};
            for (int i = 0; i < 5; ++i)
                System.out.print(a[i]);
            int x = 1/0;
        }
        catch(ArrayIndexOutOfBoundsException e) {
         System.out.print("A");
        }
        catch(ArithmeticException e) {
            System.out.print("B");
        }
    }
}
```

A. 12345
B. 12345A
C. 12345B
D. Compilation Error

7. Which of the below is the method of java.lang.Object class?

A. public int hashCode()
B. public final void wait() throws InterruptedException
C. protected void finalize() throws Throwable
D. All of Above

8. Which collection interface maintains nonunique elements in order?

A. Collection
B. Set
C. SortedSet
D. List

9. From the following classes, which one uses String as a key to store the value in object?

A. Array
B. ArrayList
C. Dictionary
D. Properties

10. How you eliminate duplicate elements in any List object using aggregate operations?

    List<Integer> numbersList = new ArrayList<>();

A. SetuniqueNumbers=numbersList.stream().collect(Collectors.toCollection(HashSet::new))
B. Set uniqueNumbers = numbersList.stream().collect(Collectors.toSet());
C. Set uniqueNumbers= umbersList.stream().collect(Collectors.toCollection(TreeSet::new));
D. All of Above

11. A pipeline is a sequence of _____ operations in java 8.

A. multi-threading
B. concurrent
C. consequent
D. stream

12. What will be the result of following program?

```
public class Worker extends Thread {
public void run() {
        System.out.println("work");
}
public static void main(String[] args) {
        Worker worker = new Worker();
        worker.start();
        worker.run();
        worker.start();
        }
}
```

A. The program will fail to compile.
B. The program will compile without errors, will print work twice, and terminate normally every time the program is run.
C. The program will compile without errors, will print work three times, and terminate normally every time the program is run.
D. The program will compile without errors, will print work twice, and throw an IllegalStateException, every time the program is run.

13. Which of the below will describe that all threads will execute in timely manner in an application?

A. Deadlock
B. Liveness
C. Starvation
D. Livelock

14. Which statement is true about ObjectInputStream?

A. ObjectInputStream reads primitive data type.
B. ObjectInputStream reads objects that support java.io.Serializable interface.
C. ObjectInputStream reads objects that support java.io.Externalizable interface.
D. All of above.

15. How many methods are defined in the Serializable interface?

A. None
B. One
C. Two
D. None of the above

16. Is it possible to create custom class loader?

A. Yes, by extending ClassLoader class and overriding loadClass(String name) method
B. Yes, by extending AppClassLoader class and overriding loadClass(String name) method
C. Yes, by implementing loadClass(String name) method of ClassLoader interface.
D. No, only JVM provided loader is responsible to load java classes.

17. How many objects are eligible for garbage collection when control reaches (1)?

```
public class Eligible {

public static void main(String[] args) {

        for (int i = 0; i < 5; i++)

        {

                Eligible obj = new Eligible();

                new Eligible();

        }

        System.gc(); // (1);

        }

    }
```

A. 0
B. 5
C. 10
D. Difficult to say

18. How can you compile the HelloWorld.java file using compact profile1?

A. javac –compact1 HelloWorld.java
B. javac –compact compact1 HelloWorld.java
C. jdeps -profile HelloWorld.java
D. javac -profile compact1 HelloWorld.java

19. Find correct output

```
    import java.lang.reflect.*;
      class Additional_packages {
         public static void main(String args[]) {
              try {
                 Class c = Class.forName("java.awt.Dimension");
                      Method methods[] = c.getMethods();
                      for (int i = 0; i < methods.length; i++)
                         System.out.println(methods[i]);
                   }
              catch (Exception e){
            System.out.print("Exception");
             }
          }
       }
```

A. prints all the constructors of 'java.awt.Dimension' package.
B. prints all the methods of 'java.awt.Dimension' package.
C. prints all the data members of 'java.awt.Dimension' package.
D. prints all the methods and data member of 'java.awt.Dimension' package.

20. Find correct output

```
    import java.net.*;
     class networking {
        public static void main(String[] args) throws UnknownHostException {
          InetAddress obj1 = InetAddress.getByName("cdac.in");
          System.out.print(obj1.getHostName());
        }
     }
```

A. cdac
B. cdac.in
C. www.cdac.in
D. None of the above

21. Which method of DriverManager class is used to establish a connection to the given database url?

A. setConnection(String url, String user, String password)
B. connect(String url, String user, String password)
C. getConnection(String url, String user, String password)
D. setConnection(String url)

22. Which of the following code snippet is used to delete an Servlet's attribute from a HTTP Session object?
A. session.removeAttribute(name)
B. session.alterAttribute(name)
C. session.updateAttribute(name)
D. None of the above.

23. Which of the below statement is true about request.getSession(false)?

A. If session exists, returns the current session associated with the request else creates new session object.
B. If session exists or not, always returns the new session.
C. If session exists, returns the current session associated with the request else returns null.
D. None of Above.

24. Which is the JSP implicit object of type ServletContext used for getting context information and attributes?

A. context
B. pageContext
C. config
D. application

25. Java Beans are usual Java classes which

A. Implements java.io.Serializable interface
B. Provides no argument constructor
C. Provides getter and setter methods for accessing it's properties.
D. All of the above

26. Which is the superclass of all exceptions in the JNDI?

A. JNDIException
B. NamingException
C. ContextException
D. AuthenticationException

27. Which of the following is a valid annotation definition?

A. private @interface MyFirstAnnotation{ }
B. public @interface MyFirstAnnotation{ }
C. public @annotation MyFirstAnnotation{ }
D. public @MyFirstAnnotation{ }

28. Which statement is correct for container-managed transactions, if the value of Transaction Timeout field is set to 0?

A. Transaction will not start.
B. Transaction will never time out.
C. If the transaction has not completed within 10 seconds, the container rolls it back.
D. Transaction will automatically close after 10 seconds.

29. What does session.evict() method do?

A. remove the object and its collections from the first level cache
B. remove the object and its collections from the second level cache
C. remove the object and its collections from the data base
D. None of the above

30. Which statement is correct?

A. To check if an instance belongs to the session cache session.contains() method can be used.
B. To check if an instance belongs to the data base session.contains() method can be used.
C. Both are correct
D. None of the above

31. Which of the following caching mechanism is supported by Hibernate?

A. Entity Caching
B. Collections Caching
C. Query Caching
D. All of Above

32. What do you understand by interceptors in Struts 2?

A. Interceptors are invoked before and after the Action is executed to achieve the features like validation, file upload, exception handling and many more.
B. Interceptors are the major point of control which used to dispatch request execution to given actions.
C. Interceptors are used to integrate the struts 2 application with other frameworks like hibernate, spring etc.
D. All of above.

33. In JavaServer Faces application which contains the information associated with processing of request and creating a response?

A. javax.faces.context.JSFContext instance.
B. javax.faces.context.FacesContext instance.
C. javax.faces.context.ApplicationContext instance.
D. javax.faces.context.SessionContext instance.

34. Which Facelets core tag is used to validate string length to a particular range?

A. <f:validateLength minimum = "Integer value" maximum = "Integer value" />
B. <f:validateLength min = "Integer value" max = "Integer value" />
C. <f:validateString minimum = "Integer value" maximum = "Integer value" />
D. <f:validateString min = "Integer value" max = "Integer value" />

35. Which of the below module does not comes under the Core Container in Spring 3?

A. Beans
B. Core
C. Context
D. AOP

36. What is Advice in the Spring Aspect-Oriented Programming (AOP)?

A. Advice is an action taken by an aspect at a particular join point.
B. Declaring additional methods or fields a particular join point is called Advice.
C. Linking aspects with other application types or objects is known as Advice.
D. Advice is an execution of a program matched by the pointcut.

37. How use of Interfaces is advantageous when designing business services?

    a. Mocking or stubbing the service
    b. Be able to use the Spring auto-injection
    c. Can do dependency checking
    d. Loosely coupled code

A: a,b,c,d

B: a,d

C: a,c

D: a,b

38. What is true about interoperability in web service?

A. Various applications can talk and share data and services among themselves.
B. Other applications can also use the web services.
C. Web services are used to make the application platform and technology independent.
D. All of the above.

39. What is the primary goal of Spring's integration testing?

A. manage Spring IoC container caching between test executions.
B. provide transaction management appropriate to integration testing.
C. provide Dependency Injection of test fixture instances.
D. All of Above.

40. Core Classes of Java mail API
    a. javax.mail
    b. javax.mail.activation
    c. java.util.Properties

A. a,c
B. a,b
C. b,c
D. All of the above