

## CTS-BFS-JAVA SE Final Test

Total Questions: 50

Most Correct Answers: #1

Least Correct Answers: #31

1. What will be the output of the program?

```
public class Test{
public static void main(String[] args) {
try {
return;
}
finally {
System.out.println( "Finally" );
}
}
}
```

15/21

☒ A Finally

1/21

☐ B Compilation fails.

1/21

☐ C The code runs with no output.

0/21

☐ D An exception is thrown at runtime.

2. What will be the output of the program?

```
public class X{
public static void main(String [] args) {
try {
badMethod();
System.out.print("A");
}
catch (Exception ex) {
System.out.print("B");
}
finally {
System.out.print("C");
}
System.out.print("D");
}
public static void badMethod() {
throw new Error(); /* Line 22 */
}
}
```

0/21

☐ A BD

14/21

☒ B BCD

0/21

☐ C BDE

0/21

☐ D BCDE

```

3. public class Test {
    public static void aMethod() throws Exception {
    try /* Line 5 */
    {
    throw new Exception(); /* Line 7 */
    }
    finally /* Line 9 */
    {
    System.out.print("finally "); /* Line 11 */
    }
    }
    public static void main(String args[]) {
    try {
    aMethod();
    }
    catch (Exception e) /* Line 20 */
    {
    System.out.print("exception ");
    }
    System.out.print("finished"); /* Line 24 */
    }
    }

```

- 0/21 ☐ A finally
- 2/21 ☐ B exception finished
- 11/21 ☒ C finally exception finished
- 1/21 ☐ D Compilation fails

4. Which three are methods of the Object class?

```

notify();
notifyAll();
isInterrupted();
synchronized();
interrupt();
wait(long msecs);
sleep(long msecs);
yield();

```

- 3/21 ☐ A 1, 2, 4
- 2/21 ☐ B 2, 4, 5
- 8/21 ☒ C 1, 2, 6
- 0/21 ☐ D 2, 3, 4

```

5. class X implements Runnable
{
public static void main(String args[])
{
/* Missing code? */
}
public void run() {}
}

```

Which of the following line of code is suitable to start a thread ?

- 0/21 ☐ A Thread t = new Thread(X);
- 9/21 ☐ B Thread t = new Thread(X); t.start();
- 4/21 ☒ C X run = new X(); Thread t = new Thread(run); t.start();
- 1/21 ☐ D Thread t = new Thread(); x.run();

6. Suppose that you would like to create an instance of a new Map that has an iteration order that is the same as the iteration order of an existing instance of a Map. Which concrete implementation of the Map interface should be used for the new instance?

- 0/21 ☐ A TreeMap
- 7/21 ☐ B HashMap
- 5/21 ☒ C LinkedHashMap
- 2/21 ☐ D The answer depends on the implementation of the existing instance.

7. Which collection class allows you to grow or shrink its size and provides indexed access to its elements, but whose methods are not synchronized?

- 3/21 ☐ A java.util.HashSet
- 1/21 ☐ B java.util.LinkedHashSet
- 3/21 ☐ C java.util.List
- 7/21 ☒ D java.util.ArrayList

8. You need to store elements in a collection that guarantees that no duplicates are stored and all elements can be accessed in natural order. Which interface provides that capability?

- 1/21 ☐ A java.util.Map
- 10/21 ☒ B java.util.Set
- 1/21 ☐ C java.util.List
- 2/21 ☐ D java.util.Collection

9. Which one of these lists contains only Java programming language keywords?

- 2/21 ☐ A class, if, void, long, Int, continue
- 9/21 ☒ B goto, instanceof, native, finally, default, throws
- 0/21 ☐ C try, virtual, throw, final, volatile, transient
- 0/21 ☐ D strictfp, constant, super, implements, do
- 1/21 ☐ E byte, break, assert, switch, include

10. Which will legally declare, construct, and initialize an array?

- 1/21 ☐ A `int [] myList = {"1", "2", "3"};`
- 1/21 ☐ B `int [] myList = (5, 8, 2);`
- 0/21 ☐ C `int myList [] [] = {4,9,7,0};`
- 11/21 ☒ D `int myList [] = {4, 3, 7};`

11. Which three are legal array declarations?

```
int [] myScores [];  
char [] myChars;  
int [6] myScores;  
Dog myDogs [];  
Dog myDogs [7];
```

- 2/21 ☒ A 1, 2, 4
- 5/21 ☐ B 2, 4, 5
- 3/21 ☐ C 2, 3, 4
- 2/21 ☐ D All are correct.

12. JVM adds default constructor, when you are not providing any default or parametarized constructor. True or False?

- 11/21 ☒ A True
- 1/21 ☐ B False

```
13. class A {  
void fun() {  
}  
}  
  
public class B extends A{  
protected void fun() {  
}  
}
```

Select correct option from the following.

- 4/21 ☒ A Code will compile
- 5/21 ☐ B Code will compile, but will not execute
- 2/21 ☐ C Code will not compile
- 0/21 ☐ D Compile error: No Main method found

14. What is the java tool used to compile a Java native method classe? Write down only Java tool in lower case

NAMAN GAUTAM

✗ JVM

Arpit Tripathi

✗ gcj

Arpit Tripathi

✗ gcj

Ayush Agrawal

✗ java

Rajat Malik

✗ javac

Abhijeet Kaushik

✗ javac

ADITI BOSE

✗ native keyword is used to compile java native method

Kumar Ratnam

✗ gcj

Anarghya S R

✗ javac

AYUSHI KALWAR

✗ By using native keyword while declaring the method.

Priya N

✗ JVM

15. Imagine Employee class file is present in C:/Praveen folder. Now you should run Employee class from D:/works folder. Set the class path to run Employee class from D:/works folder. (Note: Only set classpath. Do not type anything)

NAMAN GAUTAM

✗ set classpath=D:/works folder

Arpit Tripathi

✓ set classpath = C:/Praveen;

Arpit Tripathi

✓ set classpath=C:/Praveen;

Ayush Agrawal

✗ classpath ;c:/Praveen;

Rajat Malik

✓ set classpath=C:/Praveen;;

Abhijeet Kaushik

✗ C:/Praveen folder

ADITI BOSE

✗ set classpath=D:/works;

Kumar Ratnam

✓ set classpath=C:/Praveen;

Neha M

✗ set classpath=d:/works;

AYUSHI KALWAR

✗ set classpath=C:/Praveen; . ;

Priya N

✗ ste classpath=d:/works folder

16. You must override public int compare(Object Obj); method when a class implements Comparable interface. State true or false?

9/21 ☐ A True

2/21 ☒ B False

```

17. class A {
void fun() {
}
}

public class B extends A {
public void fun() {
}

public void test() {
}

public static void main(String[] args) {
A a = new B();
a.test();
}
}

```

- 3/21 ☐ A Code will compile
- 1/21 ☐ B Code will Compile, But will not execute
- 6/21 ☒ C Code will not compile
- 1/21 ☐ D None of Above

18. What is the o/p of following program?

```

class Father {
protected Father(String str) {
System.out.println("Created a Father " +str);
}
}
public class Child extends Father {
private Child() {
System.out.println("Inside child");
}
public static void main(String args[]) {
super("Hi");
new Child();
}
}

```

- 0/21 ☐ A Inside Child
- 1/21 ☐ B Created a Father
- 2/21 ☒ C Compilation error
- 3/21 ☐ D Created a Father Hi Inside Child



19. Which of the following lines allow main method to be executed by ClassLoader(JVM)? Select One

- 0/21 ☐ A public static String main(String args[]);
- 0/21 ☐ B protected static void main(String args[]);
- 5/21 ☒ C final public static void main(String args[]);
- 0/21 ☐ D public static void main();
- 0/21 ☐ E private static void main(String args[]);
- 0/21 ☐ F public void main(String args[]);

20. What is o/p of following program?

```
public class FinalVar {  
    private int final i;  
  
    public static void main(String args[]){  
        System.out.println(new FinalVar().i);  
    }  
}
```

- 0/21 ☐ A 1
- 1/21 ☐ B 0
- 0/21 ☐ C RunTimeException occurs
- 4/21 ☒ D CompileTime exception

21. A class cannot extends another Abstract class. true or false?

- 0/21 ☐ A True
- 5/21 ☒ B False

22. A interface can extends more than one interface. True or False?

- 2/21 ☒ A True
- 3/21 ☐ B False

23. When a super class method is default, then sub class overridden method can be?

- 0/21 ☐ A only default
- 0/21 ☐ B public or default
- 0/21 ☐ C default or private or protected
- 5/21 ☒ D public or default or protected
- 0/21 ☐ E default or protected

24. When Super and Sub classes contains only parameterized constructors, and Sub class parameterized constructor is not invoking Super class Parameterized constructor, Then can you compile and run sub class?

- 0/21 ☐ A Compiles
- 0/21 ☐ B Compiles and Executes
- 1/21 ☐ C Compiles but Run time Error
- 3/21 ☒ D Compile time error

25. If a class Employee contains a package, how to compile that class? Make sure package folder should be created in the same location where java file present.

Arpit Tripathi

✓ javac -d . Employee.java

Abhijeet Kaushik

✗ javac Employee.java

Kumar Ratnam

✓ javac -d . Employee.java

26. A Super class reference can be used to access all the methods of a Sub class and Super class. true or false?

- 0/21 ☐ A True
- 4/21 ☒ B False

```

27. public class Question05 {

    public static void main(String[] args) {
        Question05Sub myref = new Question05Sub();
        try{
            myref.test();
        }catch(IOException ioe){}
    }

    void test() throws IOException{
        System.out.println("In Question05");
        throw new IOException();
    }
}

class Question05Sub extends Question05 {

    void test() {
        System.out.println("In Question05Sub");
    }
}

```

- 2/21 ☐ A In Question05
- 1/21 ☐ B In Question05Sub
- 0/21 ☒ C Compilation error
- 0/21 ☐ D In Question05
- 0/21 ☐ E In Question05Sub

28. What is the o/p of following program?

```

public class Test {

    public static void main(String args[]){
        int i = 132;
        short s = 15;
        byte b = (byte)i;
        int x = b + s;
        System.out.println(x);
    }
}

```

- 0/21 ☐ A 135
- 1/21 ☐ B Compile Error
- 0/21 ☐ C Compile but will not execute
- 2/21 ☒ D -109

29. What is o/p of following program?

```
public class Test {  
  
    public static void main(String args[]){  
        int i = 132;  
        List list = new ArrayList();  
        list.add(new Object());  
        list.add("Hi");  
        list.add(i);  
        System.out.println(list.get(1));  
    }  
}
```

- 1/21 ☒ A Hi
- 2/21 ☐ B Compilation Error
- 0/21 ☐ C Runtime error
- 0/21 ☐ D 132

30. Select methods that correctly overload the following method  
byte bMethod(short i) throws Exception {...} . Select 3 Correct options.

- 3/21 ☒ A int bMethod(int i) throws IOException{...}
- 1/21 ☐ B protected int bMethod(short s) throws FileNotFoundException{...}
- 2/21 ☒ C private String bMethod(byte b,short s) throws Exception{...}
- 2/21 ☒ D char bMethod(String s) throws RuntimeException{...}
- 1/21 ☐ E int bMethod(short sh){...}

31. What is the o/p of following program?

```
public class Widening1 {  
  
    public void f1(Object o1){  
        System.out.println("Inside f1 with object as argument");  
    }  
  
    public void f1(String s){  
        System.out.println("Inside f1 with String as argument");  
    }  
    public static void main(String[] args) {  
  
        new Widening1().f1(null);  
    }  
}
```

0/21 ☒ A Inside f1 with String as argument

0/21 ☐ B Inside f1 with object as argument

2/21 ☐ C Compilation error

1/21 ☐ D Runtime error

32. What is the o/p of following program?

```
public class Widening1 {  
  
    public void f1(Object o1){  
        System.out.println("Inside f1 with object as argument");  
    }  
  
    public void f1(String s){  
        System.out.println("Inside f1 with String as argument");  
    }  
    public void f1(Integer i){  
        System.out.println("Inside f1 with Integer as argument");  
    }  
    public static void main(String[] args) {  
  
        new Widening1().f1(null);  
    }  
}
```

0/21 ☐ A Inside f1 with String as argument

0/21 ☐ B Inside f1 with object as argument

3/21 ☒ C Compilation error

0/21 ☐ D Inside f1 with object as argument

33. What is the o/p of following program?

```
public class MyClass{  
    public static void main(String[] args) {  
  
        int[] dest = new int[]{0,1,2,3,4,5};  
        System.out.println(dest[0]+ dest[5]+dest[2]);  
    }  
}
```

1/21 ☐ A 052

0/21 ☐ B Compilation Error

2/21 ☒ C 7

0/21 ☐ D 152

34. What is the o/p of following program?

```
public class Overloading {  
  
    public void f1(Integer i){  
        System.out.println("inside 1");  
    }  
  
    public void f1(int i){  
        System.out.println("inside 2");  
    }  
  
    public static void main(String args[]){  
        new Overloading().f1(8);  
    }  
}
```

0/21 ☐ A inside 1

2/21 ☒ B inside 2

0/21 ☐ C Compilation error

1/21 ☐ D Rutime error

35. Will this code compile fine?

```
public class FinalHashMap {  
1 private static final Map map = new HashMap();  
2 public static void main(String[] args) {  
  
3 map.put("param1","value1");  
4 map.put("param2","value2");  
5 map=new HashMap();  
}  
}
```

- 1/21 ☐ A Yes
- 2/21 ☐ B No,Compilation Error at line 3
- 0/21 ☐ C No, Runtime Error
- 0/21 ☒ D No,Compilation Error at line 5

36. What is o/p of following program

```
class Child extends Parent {  
public static void staticMethod(){  
System.out.println("Inside Child static");  
}  
}  
  
public class Parent {  
public static void staticMethod(){  
System.out.println("Inside Parent static");  
}  
  
public static void main(String[] args) {  
Parent p = new Child();  
p.staticMethod();  
}  
  
}
```

- 0/21 ☒ A Inside Parent static
- 2/21 ☐ B Inside Child static
- 1/21 ☐ C Compile time error.
- 0/21 ☐ D Runtime error

37. Is it compulsory to implement print() method in AbstractClass?

```
public interface Interface1 {
```

```
void print(String str);  
}
```

```
public abstract class AbstractClass implements Interface1 {  
}
```

- 1/21 ☐ A Yes
- 2/21 ☒ B No
- 0/21 ☐ C Compile error
- 0/21 ☐ D Abstract class cannot implement an interface

38. How can an ArrayList be synchronized without using Vector?

- 0/21 ☒ A Collections.synchronizedList(List list)
- 1/21 ☐ B Collections.synchronizedSet(List list)
- 0/21 ☐ C Collection.synchronizedList(List list)
- 2/21 ☐ D Collection.synchronizedList()

39. what is the o/p of following program?

```
public class Sample  
public static void main(String[] args) {  
String s1=new String("Abc");  
String s2="Abc";  
if(s1==s2){  
System.out.println("Equal");  
}else{  
System.out.println("Not Equal");  
}  
}  
}
```

- 0/21 ☐ A Equal
- 2/21 ☒ B Not Equal
- 1/21 ☐ C Compile Error
- 0/21 ☐ D Runtime Exception

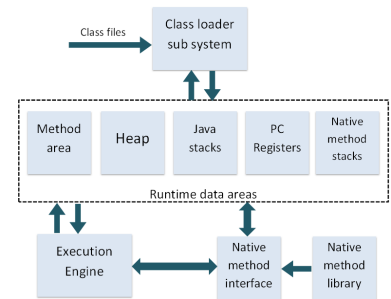
40. StringBuffer class is mutable. true or false?

- 4/21 ☒ A True
- 0/21 ☐ B False



41. From the diagram, what is method Area?

- 0/21 ☐ A Class Code and method code will be executed
- 4/21 ☒ B Class Code and method code will be stored
- 0/21 ☐ C Objects are stored
- 0/21 ☐ D Class code will be re compiled



42. What is the o/p of following code?

```
class Demo{
```

```
    public static void main(String[] args) {
```

```
        ArrayList<Integer> arr=new ArrayList<Integer>();
        arr.add(1000);
        arr.add(2000);
        arr.add("Abc");
```

```
        System.out.println(ar);
    }
```

```
}
```

- 3/21 ☐ A [100 200 Abc]
- 0/21 ☐ B [100 200]
- 1/21 ☒ C Compile Error
- 0/21 ☐ D Will compile , but will not execute
- 0/21 ☐ E Abc

43. Writing same method with same signature in sub class is known as method overriding. true or false?

- 4/21 ☒ A True
- 0/21 ☐ B False

44. Which abstract class is the super class of all classes used for writing characters. Select the one correct answer.

- 1/21 ☒ A Writer
- 0/21 ☐ B FileWrite
- 0/21 ☐ C CharWriter
- 2/21 ☐ D OutputStream
- 1/21 ☐ E FileOutputStream

45. Which of these classes are abstract. Select the two correct answers.

- 2/21 ☒ A Reader
- 2/21 ☒ B InputStream
- 2/21 ☐ C CharArrayReader
- 2/21 ☐ D DataInputStream

46. final class cannot be used as super class in any classes. true or false?

- 3/21 ☒ A True
- 1/21 ☐ B False

47. What is the output of following code?  
class B {

```
public static void main(String[] args) {  
    int x[]=new int[3];  
    for(int i:x){  
        System.out.print(i);  
    }  
}
```

- 0/21 ☐ A Compilation exception
- 2/21 ☒ B 0 0 0
- 0/21 ☐ C three blank spaces
- 2/21 ☐ D null pointer exception

48. ListIterator can be used to iterate Set interface classes. true or false?

- 2/21 ☐ A True
- 2/21 ☒ B False

49. What is the method used to copy keys of a Map to Set interface?

1/21 ☐ A entrySet();

1/21 ☐ B keyMap();

0/21 ☐ C entryMap();

2/21 ☒ D keySet();

50. What is the method used to Sort ArrayList?

3/21 ☐ A Arrays.sort();

0/21 ☒ B Collections.sort();

1/21 ☐ C Arrays.sortList();

0/21 ☐ D Collections.sortList();