

Core Java: Part 5

1. What is the output of the below code:

```
StringBuffer s = new StringBuffer("Hello");  
StringBuffer s1 = new StringBuffer("World");  
s.append(s1);  
System.out.println(s);
```

- A) Hello
- B) World
- C) Hello World
- D) Compilation Fails

2. What is the output of the below syntax:

```
String s = "IDEAL";  
System.out.println(s.substring(0, s.length()-1)+(s.charAt(s.length()-1)));
```

- A) IDE
- B) IDEAL
- C) IDEA
- D) Compilation Fails

3. What is the output of the below code:

```
class Test{  
    public static void main(String[] args) {  
        StringBuffer buffer = new StringBuffer("HelloWorld");  
        buffer.insert(5, "test");  
        System.out.println(buffer);  
    }  
}
```

- A) Hellotest

- B) **HelloTestWorld**
- C) Compilation fails
- D) Runtime error

4. What is the output of the below code:

```
public class Test{  
    public static void main(String[] args) {  
        String s = new String("IBM");  
        System.out.println(s.length());  
    }  
}
```

- A) 2
- B) **3**
- C) Compilation fails
- D) runtime error

5. What is the output of the below code:

```
class Test{  
    public static void main(String[] args) {  
        String str = "Good Morning";  
        str.concat("Hello");  
        System.out.println(str);  
    }  
}
```

- A) **Good Morning**
- B) Good Morning Hello
- C) Compilation fails
- D) runtime error

6. What is the output of the below code:

```
class Test{  
    public static void main(String[] args) {  
        StringBuffer buffer = new StringBuffer("Good");  
        buffer.reverse();  
        System.out.println(buffer);  
    }  
}
```

- A) dooG
- B) Good
- C) Compilation fails
- D) runtime error

7. What is the output of the below code:

```
public class DemoProgram {  
    public static void main(String[] args) {  
        System.out.println(5+4+"String"+7+1);  
    }  
}
```

- A) 54String71
- B) 9String8
- C) 9String71
- D) 54String8

8. What is the output of the below code:

```
public class DemoProgram {  
    public static void main(String[] args) {  
        String str = "Hello World";  
    }  
}
```

```
str.addAtIndex(5,"test");  
}  
}
```

- A) HellotestWorld
- B) Hellotest
- C) **Compilation fails**
- D) runtime error

9. What is the output of the above code?

```
class SuperClass {  
    public int dolt(String str, Integer... data)throws ArrayIndexOutOfBoundsException{  
        String signature = "(String, Integer[])";  
        System.out.println(str + " " + signature);  
        return 1;  
    }  
}  
  
public class Test extends SuperClass{  
    public int dolt(String str, Integer... data) throws Exception  
    {  
        String signature = "(String, Integer[])";  
        System.out.println("Overridden: " + str + " " + signature);  
        return 0;  
    }  
  
    public static void main(String... args)  
    {  
        SuperClass sb = new Test();  
        try{  
            sb.dolt("hello", 3);  
        }catch(Exception e){  
        }  
    }  
}
```

- A) Overridden:hello(String, Integer[])
- B) hello (String, Integer[])
- C) This code throws exception at run time
- D) **compile time error**

10. Pick runtime exception?....A. ClassCastException

B. FileNotFoundException

C. NullPointerException

D. SecurityException

E. Above all

A) A,B,C

B) C,D,E

C) A,D,E

D) **A,C,D**

E) E

11. In multiple catch clause which of the following statements are valid?

- A) Super class block will execute first
- B) **Sub class catch block will execute first**
- C) Super class catch block will never execute
- D) Sub class catch block will never execute

12. What is the output of the below code:

```
public class Test {  
    public static void main(String[] args) {  
        double x = 0, y = 5.4324;  
        try {  
            System.out.println( (y/x) );  
        }  
    }  
}
```

```

}
catch (Exception e) {
System.out.println("Exception");
}
catch (Throwable t) {
System.out.println("Error");
} } }

```

- A) Exception
- B) Error
- C) Infinity
- D) Exception Error

13. What is the output of the below code:

```

class OurCreatedException extends Exception{
OurCreatedException(){
super();
}
}
class XYZ{
public static void method(String name) throws OurCreatedException{
if(name==null){
throw new OurCreatedException();
}
else{
System.out.println("Welcome "+name);
}}
}
class Test{
public static void main(String[] args) {
XYZ.method("John");
}
}

```

}

- A) Welcome John
- B) null
- C) **Compilation fails**
- D) OurCreatedException thrown at run time

14. What type of Exception Occurs at the following snippet code:

Number n = new Integer(12);

Double d = (Double)n;

System.out.println(d);

- A) NumberFormatException
- B) **ClassCastException**
- C) InputMismatchException
- D) None of the above

15. What is the output of the below code:

public class DemoProgram {

public static void main(String[] args) {

try{

int a=0,b=10;

int c=a/b;

System.out.println("Hello");

}catch(ArithmeticException e){

System.out.println("world");

}

}

}

- A) world
- B) **Hello**
- C) ArithmeticException

D) Compilation fails

16. What type of exception occurs in the below code:

```
class Test{  
    public static void main(String[] args) {  
        try{  
            int[] array = {1,3,5,6};  
            System.out.println(array[-1]);  
        }catch(NegativeArraySizeException ne){  
            ne.printStackTrace();  
        }  
        catch(ArrayIndexOutOfBoundsException ae){ae.printStackTrace();  
        }  
    }  
}
```

A) NegativeArraySizeException

B) ArrayIndexOutOfBoundsException

C) both a & b

D) none of the above mentioned

17. Given that the current directory is empty, and that the user has read and write permissions, and the following:

11. import java.io.*;

12. public class DOS {

13. public static void main(String[] args) {

14. File dir = new File("dir");

15. dir.mkdir();

16. File f1 = new File(dir, "f1.txt");


```
17. try {  
18. f1.createNewFile();  
19. } catch (IOException e) { ; }  
20. File newDir = new File("newDir");  
21. dir.renameTo(newDir);  
22. }  
23. }
```

Which statement is true?

- A. Compilation fails.
 - B. The file system has a new empty directory named dir.
 - C. The file system has a new empty directory named newDir.
 - D. The file system has a directory named dir, containing a file f1.txt.
 - E. The file system has a directory named newDir, containing a file f1.txt.
- A) A
B) B
C) C
D) D
E) **E**

18. What will be the result of compiling and run the following code:

```
import java.io.File;  
  
public class Test {  
    public static void main(String... args) throws Exception {  
        File myDir = new File("test");  
        // myDir.mkdir();  
        File myFile = new File( myDir, "test.txt");  
        myFile.createNewFile();  
    }  
}
```

A) create directory "test" and a file name as "test.txt"

B) java.io.IOException

C) Compile with error

D) None of the above

19. Which of the following is correct about junit?

a) It is an open source framework.

b) It provides Annotation to identify the test methods.

c) It provides Assertions for testing Expected results

d) All of the above

20. Name the pattern which involves a single class which is responsible to create an object while

making sure that only single object gets created?

Singleton

21. What is the output of this program?

```
import java.util.*;

public class genericstack <E> {
    Stack <E> stk = new Stack <E>();
    public void push(E obj) {
        stk.push(obj);
    }
    public E pop() {
        E obj = stk.pop();
        return obj;
    }
}
```

```

class Output {
public static void main(String args[])
{
genericstack <String> gs = new gene
ricstack<String>();
gs.push("Hello");
System.out.print(gs.pop() + " ");
genericstack <Integer> gs = new gen
ericstack<Integer>();
gs.push(36);
System.out.println(gs.pop());
}
}

```

- a) Error
- b) Hello
- c) 36
- d) Hello 36

22. What is the output of this program?

```

import java.util.*;
class Collection_Algos {
public static void main(String args[])
{LinkedList list = new LinkedList();
list.add(new Integer(2));
list.add(new Integer(8));
list.add(new Integer(5));
list.add(new Integer(1));
Iterator i = list.iterator();
Collections.reverse(list);
Collections.sort(list);
while(i.hasNext())

```

```
System.out.print(i.next() + " ");
```

```
}
```

```
}
```

a) 2 8 5 1

b) 1 5 8 2

c) 1 2 5 8

d) 2 1 8 5

23. What is the output of this program?

```
import java.util.*;
```

```
class BitSet {
```

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

```
{
```

```
    BitSet obj = new BitSet(5);
```

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

```
        obj.set(i);
```

```
    obj.clear(2);
```

```
    System.out.print(obj);
```

```
}
```

```
}
```

a) {0, 1, 3, 4}

b) {0, 1, 2, 4}

c) {0, 1, 2, 3, 4}

d) {0, 0, 0, 3, 4}