Core Java: Part 4

1. **What is the output of the below code:**

```
interface A{
void method();
}
class Test{
public void method(){
System.out.println("call from a method");
}
public static void main(String[] args) {
A a =(A) new Test();
a.method();
}
}
```

A) call from a method

B) No ouput at console

C) Compilation fails

D) Exception is thrown at Runtime

ANS:D) Exception is thrown at Runtime

2. **Which of the following lines will allow the code to execute the program?**

```
abstract class MyClass{
abstract int m();
}
interface MyInterface{
public int m();
}
public class Test extends MyClass implements MyInterface{
//code to execute
}
```

A) int m(){}

int m(){}

B) int m(){}

int MyInterface.m(){}

C) int m(){}

D) None of the above

3. What is the output for the below code ?

```
public interface TestInf {
int i =10;
}public class Test {
public static void main(String... args) {
TestInf.i=12;
System.out.println(TestInf.i);
}
}
```

A) 10

B) 12

C) compile time error

D) run time error

ANS:D) run time error

4. Which Man class properly represents the relationship "Man has a best friend who is a Dog"?

A) class Man extends Dog { }

B) class Man implements Dog { }

C) class Man { private BestFriend dog; }

D) class Man { private Dog bestFriend; }

E) class Man { private Dog<bestFriend>; }

ANS:D) class Man { private Dog bestFriend; }

5. Which three are true? (Choose three.)

10. interface Jumper { public void jump(); } ...

20. class Animal {} ...

30. class Dog extends Animal {

31. Tail tail; 32. } ...

40. class Beagle extends Dog implements Jumper{

41. public void jump() {}

42. } ...

50. class Cat implements Jumper{

51. public void jump() {}

52. }

A. Cat is-a Animal

B. Cat is-a Jumper

C. Dog is-a Animal

D. Dog is-a Jumper

E. Cat has-a Animal

F. Beagle has-a Tail

G. Beagle has-a Jumper

A) A,B,D

B) AF,G

C) B,F,G

D) B,C,F

E) E,F,G

6.What will be the output

public void divide(int a, int)

{

Try{

Int c = a/b;

}

Catch(Exception e)

{

SOP(Exception);

}

Finally{

SOP(“finally”)

}

}

a)error

b)compile successfully

c)compile time error with finally will work.

ANS:a)error

7. Determine the output

Class exception_Handling{

Public static void main(String args[]){

Try{

SOP(“Hello”+” ”+1/0);

}

Catch(ArithmeticException e)

{

SOP(“World”);

}

}}

a) World

b)Hello World

c)Hello

d)none of the above

ANS:a) World

8. class exception_handling {

public static void main(String args[]) {

try {

int a, b;

b = 0;

a = 5 / b;

System.out.print("A");

}

catch(ArithmeticException e) {

System.out.print("B");

}

}

}

a) A

b) B

c) Compilation Errord) Runtime Error

ANS:b) B

9. Which of these handles the exception when no catch is used?

a. Default handler

b. Finally

c. Throw handler

d. Java run time system

ANS:c. Throw handler

5. class exception_handling {

public static void main(String args[]) {

try {

```
int a, b;
b = 0;
a = 5 / b;
System.out.print("A");
}
catch(ArithmeticException e) {
System.out.print("B");
}
finally {
System.out.print("C");
}
}
}
```

a) A

b) B

c) AC

d) BC

ANS:d) BC

10. Determine the output

```
class exception_handling {
public static void main(String args[]) {
try {
int a = args.length;
int b = 10 / a;
System.out.print(a);
try {
if (a == 1)
a = a / a - a;
if (a == 2) {
int c = {1};
```

```
c[8] = 9;
}
}
catch (ArrayIndexOutOfBoundException e) {System.out.println("TypeA");
}
catch (ArithmeticException e) {
System.out.println("TypeB");
}}}}
```

a) TypeA

b) TypeB

c) 0TypeA

ANS:b) TypeB

11. 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

ANS:C) Infinity

12. 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

ANS:A) A,B,C

13. Determine the output

```
public class Test {
public static void main(String[] args) {
try{
System.out.println("String "+1/0);
}catch(ArithmeticException ae){
System.out.println("Catch block");
}}
}
```

What is the output of the program?

A) String Infinity Catch block

B) String Catch block

C) Catch block

D) Infinity

ANS:C) Catch block

14. 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

ANS:A) Super class block will execute first

```
15. class SuperClass {
public int doIt(String str, Integer... data)throws ArrayIndexOutOfBoundsException{
String signature = "(String, Integer[])";
System.out.println(str + " " + signature);
return 1;
}}
public class Test extends SuperClass{
public int doIt(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.doIt("hello", 3);
}catch(Exception e){
}
}
}
```

What is the output of the above code?

A) Overridden:hello(String,

Integer[])

B) hello (String, Integer[])

C) This code throws exception at run time

D) compile time error

ANS:C) This code throws exception at run time

16. Choose the incorrect statement about SingleThreadModel.

A. It is used to ensure that servlet can handle only one request at a time.

B. It is a marker interface

C. It solves all the thread-safety issues

A) A

B) B

C) C

ANS:C) C

17. What will be the output of the program?

```
public class Animal
{
public static void main(String [] args)
{
Dog [][] theDogs = new Dog[3][]
System.out.println(theDogs[2][0].toString())
}}
class Dog { }
```

A) null

B) theDogs

C) Compilation fails

D) An exception is thrown at runtime

ANS:D) An exception is thrown at runtime

18. What will be the output of the below code

```
class Employee{
Employee(){
System.out.println(1);
}
void test(){
this();
System.out.println(2); }
}
class Manager
{
public static void main(String args[]){
Employee e1=new Employee();
}}
```

A) 1

B) 2

C) compile time error

D) run time error

ANS:D) run time error

19. What is the output of the above code ?

```
import java.io.*;
public class Test {
public static void main(String[] args) {
String s1 = "abc";
```

String s2 = "def";

String s3 = s1.concat(s2.toUpperCase());

System.out.println(s1+s2+s3);

}

}

A) abcDEF

B) abcdefabcdef

C) abcdefDEF

D) abcdefabcDEF

ANS:D) abcdefabcDEF

20. What is the ouput of the program?public class Test {

public static void main(String[] args) {

String a = "hello i love java";

System.out.println(a.indexOf('i')+" "+a.lastIndexOf('o')+" "+a.lastIndexOf('i')+" "+ a.indexOf('o'));

}

}

A) 6 9 6 7

B) 6 9 6 4

C) 5 9 6 4

D) 5 9 5 4

ANS:B) 6 9 6 4

21. What is the ouput of the below code:class Test

{

public static void main(String[] s)

{

String s1="Hello",s2="World";

System.out.println(s1+s2);

System.out.println(s1.concat(s2));

}

}

A) HelloWorld

B) HelloWorld

HelloWorld

C) Compilation fails

D) Runtime error

ANS:B) HelloWorld

HelloWorld

22. What is the output of the below code,

public class Test {

public static void main(String[] args) {

System.out.println("String "+new Integer("4")+5);

} }

A) String 9

B) String 45

C) compilation error

D) run time error

ANS:B) String 45

23. What will be the output of the below code:

if("Welcome".trim() == "Welcome".trim())

System.out.println("Equal");

else

System.out.println("Not Equal");

A) compile and display “Equal”

B) compile and display “Not Equal”

C) cause a compiler error

D) compile and display NULL

ANS:C) cause a compiler error

24.Which are the legal Stirng operations

A) s3= s1+s2;

B) s3= s1-s2;

C) s3= s1&s2;

D) s3= s1&&s2;

A) A

B) B

C) C

D) D

ANS:A) s3= s1+s2;

25. What is the output of the below code

```
class Test{
public static void main(String[] args) {
System.out.println(5.45+"3,2");
}
}
```

A) 5

B) 5.4

C) 5.453,2

D) Compilation Fails

ANS:C) 5.453,2