**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

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

**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>; }

**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.

**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

**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

**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**

**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

**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

**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

**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

E) E

**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

**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

**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

**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

**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

**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

**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

**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

**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

**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

**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

**24.Which are the legal Stirng operationsA) s3= s1+s2;**

**B) s3= s1-s2;**

**C) s3= s1&s2;**

**D) s3= s1&&s2;**

A) A

B) B

C) C

D) D

**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