**Core Java, Quiz-9, Date: 25/09/2018**

**1. The class at the top of exception class hierarchy is .................**

A. ArithmeticException

B. Throwable

C. Object

D. Exception

**2. In which of the following package Exception class exist?**

A. java.util

B. java.file

C. java.io

D. java.lang

E. java.net

**3. Exception generated in try block is caught in ........... block.**

A. catch

B. throw

C. throws

D. finally

**4. Which keyword is used to explicitly throw an exception?**

A. try

B. throwing

C. catch

D. throw

**5. Which exception is thrown when divide by zero statement executes?**

A. NumberFormatException

B. ArithmeticException

C. NullPointerException

D. None of these

**6. Which keyword is used to specify the exception thrown by method?**

A. catch

B. throws

C. finally

D. throw

**7.**

**public class Test{**

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

**try{**

**int a = Integer.parseInt("four");**

**}**

**}**

**}**

**Which exception could be handled by the catch block for above?**

A. IllegalStateException

B. NumberFormatException

C. ClassCastException

D. ArrayIndexOutOfBoundsException

E. None of these

**8.**

**public class Test{**

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

**try{**

**int i;**

**return;**

**}**

**catch(Exception e){**

**System.out.print("inCatchBlock");**

**}**

**finally{**

**System.out.println("inFinallyBlock");**

**}**

**}**

**}**

A. inCatchBlock

B. inCatchBlock inFinallyBlock

C. inFinallyBlock

D. The program will return without printing anything

**9.**

**public class Test{**

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

**try{**

**String arr[] = new String[10];**

**arr = null;**

**arr[0] = "one";**

**System.out.print(arr[0]);**

**}catch(Exception ex){**

**System.out.print("exception");**

**}catch(NullPointerException nex){**

**System.out.print("null pointer exception");**

**}**

**}**

**}**

A. "one" is printed.

B. "exception" is printed.

C. "null pointer exception" is printed.

D. Compilation fails saying NullPointerException has already been caught.

E. None of these

10.

**try{**

**File f = new File("a.txt");**

**}catch(Exception e){**

**}catch(IOException io){**

**}**

Is this code create new file name a.txt ?

A. true

B. false

C. Compilation Error

D. None of these

**11. Which of the following blocks execute compulsorily whether exception is caught or not.**

A. finally

B. catch

C. throws

D. throw

**12. What happen in case of multiple catch blocks?**

A. Either super or subclass can be caught first.

B. The superclass exception must be caught first.

C. The superclass exception cannot caught first.

D. None of these

**13. Which exception is thrown when an array element is accessed beyond the array size?**

A. ArrayElementOutOfBounds

B. ArrayIndexOutOfBoundsException

C. ArrayIndexOutOfBounds

D. None of these

# 14. What is the output of the following program code?

**public class Test{**

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

**try{**

**int i;**

**return;**

**}**

**catch(Exception e){**

**System.out.print("inCatchBlock");**

**}**

**finally{**

**System.out.println("inFinallyBlock");**

**}**

**}**

**}**

A. inCatchBlock

B. inCatchBlock inFinallyBlock

C. inFinallyBlock

D. The program will return without printing anything

# 15. Given the following piece of code:

**class SalaryCalculationException extends Exception{}**

**class Person{**

**public void calculateSalary() throws SalaryCalculationException{**

**//...**

**throw new SalaryCalculationException();**

**//...**

**}**

**}**

**class Company{**

**public void paySalaries(){**

**new Person().calculateSalary();**

**}**

**}**

Which of the following statements is correct?  
1. This code will compile without any problems.  
2. This code will compile if in method paySalaries() we return a boolean in stead of void.  
3. This code will compile if we add a try-catch block in paySalaries().  
4. This code will compile if we add throws SalaryCalculationException in the signature of method paySalaries().

A. 1 and 4

B. 2 and 3

C. 2 and 4

D. 3 and 4

E. 1 and 2

# 16. What will be the output of the following piece of code:

**class Person{**

**public void talk() {}**

**}**

**public class Test{**

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

**Person p = null;**

**try{**

**p.talk();**

**}**

**catch(NullPointerException e){**

**System.out.print("There is a NullPointerException. ");**

**}**

**catch(Exception e){**

**System.out.print("There is an Exception. ");**

**}**

**System.out.print("Everything went fine. ");**

**}**

**}**

A. There is a NullPointerException. Everything went fine.

B. There is a NullPointerException.

C. There is a NullPointerException. There is an Exception.

D. This code will not compile, because in Java there are no pointers.

# 17. Determine output of the following program code?

**public class Test{**

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

**int i;**

**try{**

**i = calculate();**

**System.out.println(i);**

**}catch(Exception e){**

**System.out.println("Error occured");**

**}**

**}**

**static int calculate(){**

**return (7/2);**

**}**

**}**

A. 3

B. 3.5

C. Error occured

D. Compilation Error

E. None of these

**18.**

**public class Test{**

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

**try{**

**int a = Integer.parseInt("four");**

**}**

**}**

**}**

Which exception could be handled by the catch block for above?

A. IllegalStateException

B. NumberFormatException

C. ClassCastException

D. ArrayIndexOutOfBoundsException

E. None of these

**19. What will be the output? l be the output?**

**class MyClass{**

**public String test(){**

**try{**

**System.out.print("One");**

**return "";**

**}**

**finally{**

**System.out.print("Two");**

**}**

**}**

**}**

**public class Test{**

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

**MyClass m = new MyClass();**

**m.test();**

**}**

**}**

A. One

B. Two

C. One Two

D. Compilation Error

E. None of these

**20. What will be the result after compiling this code?**

**class SuperClass{**

**public int doIt(String str, Integer... data)throws Exception{**

**String signature = "(String, Integer[])";**

**System.out.println(str + " " + signature);**

**return 1;**

**}**

**}**

**public class Test extends SuperClass{**

**public int doIt(String str, Integer... data){**

**String signature = "(String, Integer[])";**

**System.out.println("Overridden: " + str + " " +signature);**

**return 0;**

**}**

**public static void main(String... args){**

**SuperClass sb = new Test();**

**sb.doIt("hello", 3);**

**}**

**}**

A. Overridden: hello (String, Integer[])

B. hello (String, Integer[])

C. Compilation fails

D. None of these

**21. What is the output for the below code ?**

**import java.io.FileNotFoundException;**

**class A{**

**public void printName() throws FileNotFoundException{**

**System.out.println("Value-A");**

**}**

**}**

**class B extends A{**

**public void printName() throws NullPointerException{**

**System.out.println("Name-B");**

**}**

**}**

**public class Test{**

**public static void main (String[] args) throws Exception{**

**A a = new B();**

**a.printName();**

**}**

**}**

A. Value-A

B. Compilation fails-Exception NullPointerException is not compatible with throws clause in A.printName()

C. Name-B

D. Compilation succeed but no output

E. None of these

**22.**

**try{**

**File f = new File("a.txt");**

**}catch(Exception e){**

**}catch(IOException io){**

**}**

Is this code create new file name a.txt ?

A. true

B. false

C. Compilation Error

D. None of these

**23. What is the output for the below code ?**

**import java.io.FileNotFoundException;**

**class A{**

**public void printName() throws FileNotFoundException{**

**System.out.println("Value-A");**

**}**

**}**

**class B extends A{**

**public void printName() throws NullPointerException{**

**System.out.println("Name-B");**

**}**

**}**

**public class Test{**

**public static void main (String[] args) throws Exception{**

**A a = new B();**

**a.printName();**

**}**

**}**

**A.** Value-A

B. Compilation fails-Exception NullPointerException is not compatible with throws clause in A.printName()

C. Name-B

D. Compilation succeed but no output

E. None of these

**24. What will be the result of executing the following code?**

**public class Test{**

**public void divide(int a, int b){**

**try{**

**int c = a / b;**

**}catch(Exception e){**

**System.out.print("Exception ");**

**}finally{**

**System.out.println("Finally");**

**}**

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

**Test t = new Test();**

**t.divide(0,3);**

**}**

**}**

**A.** Prints out: Exception

B. Prints out: Exception Finally

C. Compile with error

D. Prints out: Finally

E. None of these

**25. Which of the below statement is/are true about Error?**  
A. An Error is a subclass of Throwable.  
B. An Error is a subclass of Exception.  
C. Error indicates serious problems that a reasonable application should not try to catch.  
D. An Error is a subclass of IOException.

A. A and D

B. A and B

C. A and C

D. B and C

E. B and D

**26. Predict the output:**

**public class Test{**

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

**try{**

**String arr[] = new String[10];**

**arr = null;**

**arr[0] = "one";**

**System.out.print(arr[0]);**

**}catch(Exception ex){**

**System.out.print("exception");**

**}catch(NullPointerException nex){**

**System.out.print("null pointer exception");**

**}**

**}**

**}**

**A**. "one" is printed.

B. "exception" is printed.

C. "null pointer exception" is printed.

D. Compilation fails saying NullPointerException has already been caught.

E. None of these

# 27. Given the code. What is the result when this program is executed?

**public class Test{**

**static int x[];**

**static{**

**x[0] = 1;**

**}**

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

**}**

**}**

A. ArrayIndexOutOfBoundsException is thrown

B. ExceptionInInitializerError is thrown

C. IllegalStateException is thrown

D. StackOverflowException is thrown

E. None of these

**28. What will be the result if NullPointerException occurs at line 2?**

**1. try{**

**2. //some code goes here**

**3. }**

**4. catch(NullPointerException ne){**

**5. System.out.print("1 ");**

**6. }**

**7. catch(RuntimeException re){**

**8. System.out.print("2 ");**

**9. }**

**10. finally{**

**11. System.out.print("3");**

**12. }**

A. 1

B. 3

C. 2 3

D. 1 3

E. 1 2 3

**29. What will be the result after the class Test execution?**

**class A{**

**public void doA(){**

**B b = new B();**

**b.dobB();**

**System.out.print("doA");**

**}**

**}**

**class B{**

**public void dobB(){**

**C c = new C();**

**c.doC();**

**System.out.print("doB");**

**}**

**}**

**class C{**

**public void doC(){**

**if(true)**

**throw new NullPointerException();**

**System.out.print("doC");**

**}**

**}**

**public class Test{**

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

**try{**

**A a = new A();**

**a.doA();**

**}catch(Exception ex){**

**System.out.print("error");**

**}**

**}**

**}**

**A**. "doCdoBdoA" is printed

B. "doAdoBdoC" is printed

C. "doBdoAerror" is printed

D. "error" is printed

E. nothing is printed