

### **Core Java- Paper-3**

1. Which of these classes are child classes of Throwable class?
  - a) RuntimeException and Error class
  - b) Exception and VirtualMachineError class
  - c) Exception and Error class
  - d) IOException and Runtime Exception
  
2. How to handle checked exceptions in java?
  - a) Using try and catch block
  - b) Using finally block
  - c) Using throw statement
  - d) Using throws statement
  - e) Both a & d
  
3. Which block is used to perform cleanup activity?
  - a) Try block
  - b) Catch block
  - c) Instance and static block
  - d) Finally block
  
4. Which combination is invalid in java?
  - a) try-catch
  - b) try-catch-finally
  - c) catch-finally
  - d) try-finally

5. Which keyword is used to throw exceptions manually?

- a) Try
- b) Catch
- c) Finally
- d) Throw
- e) Throws

6. The class at the top of exception class hierarchy is?

- a) Throwable
- b) Object
- c) Exception
- d) Error

7. In which of the following package Exception class exists?

- a) java.util
- b) java.file
- c) java.io
- d) java.net
- e) java.lang

8. Which exception is thrown when we divide any number with zero?

- a) NumberFormatException
- b) ArithmeticException
- c) NullPointerException
- d) None of These

9. Which of the following block execute compulsory whether exception is caught or not?
- a) Try block
  - b) Catch block
  - c) Throws statement
  - d) Finally block
10. Which exception is thrown when an array element is access beyond the range or size?
- a) `ArrayElementsOutOfBounds`
  - b) `ArrayIndexOutOfBoundsException`
  - c) `ArrayIndexOutOfBounds`
  - d) None of the above.
11. What are the valid combinations?
- a) Try-catch
  - b) Try-catch-catch
  - c) Try-catch-finally
  - d) Try-finally
  - e) All the above.

12. What is the output of the following program code?

```
public class Test{  
    public static void main(String[] args){  
        try{  
            int i;  
            return;  
        }  
        catch(){  
            System.out.println("in-catch block");  
        }  
        finally{  
            System.out.println("in-finally block");  
        }  
    }  
}
```

- a) In-catch block
- b) In-catch block and In-finally block
- c) In-finally block
- d) Program will return without printing anything

13. What will be the output of the following piece of code?

```
class Person{  
    public void talk(){}  
}  
  
class Test{  
    public static void main(String[] args){  
        Person p=null;  
        try{  
            p.talk();  
        }  
        catch(NullPointerException npe){  
            System.out.println("This is Null Pointer Exception");  
        }  
        catch(Exception e){  
            System.out.println("This is an Exception");  
        }  
        System.out.println("Everything went fine");  
    }  
}
```

- a) There is Null Pointer Exception  
Everything went fine
- b) There is Null Pointer Exception
- c) There is Null Pointer Exception  
This is an Exception
- d) This code will not compiled because we don't have pointers.

14. Which exception could be handled by catch block?

```
try{  
    int a=Integer.parseInt("four");  
}
```

- a) IllegalStateException
- b) NumberFormatException
- c) ClassCastException
- d) ArrayIndexOutOfBoundsException

15. Valid methods to display exception details?

- a) printStackTrace()
- b) toString()
- c) getMessage()
- d) All the Above

16. Which of the following package used for input/output operations?

- a) Java.io
- b) Java.util
- c) Java.lang
- d) Java.util.stream

17. Which of this class is not related to input/output stream?
- a) Writer
  - b) File
  - c) InputStream
  - d) Reader
18. Which is enhanced writer to write character oriented data into a file?
- a) FileWriter
  - b) BufferedWriter
  - c) PrintWriter
  - d) InsertWriter
19. Which is enhanced reader to read character oriented data from a file?
- a) FileReader
  - b) BufferedReader
  - c) PrintReader
  - d) None of the above.

20. What will be the output of following code?

```
File obj=new File("/java/system");  
  
System.out.println(obj.getAbsoluatePath());
```

- a) Java
- b) System
- c) Java/system
- d) \java\system

21. What will be the output of following code?

```
File obj=new File("/java/system");  
  
System.out.println(obj.canWrite());  
  
System.out.println(obj.canRead());
```

- a) true false
- b) false true
- c) false false
- d) true true

22. How to create Console class object?

- a) Console c=new Console();
- b) Console c=Console.getConsole();
- c) Console c=System.console();
- d) Console c=getConsole();

23. In how many ways we can read input values from keyboard?

- a) Using Scanner class
- b) Using Console class
- c) Using BufferedReader class
- d) Command line arguments
- e) All the above.



24. Can we perform file handling in java?

- a) Yes
- b) No
- c) Might be
- d) No chance

25. In java, how many streams are created automatically with console?

- a) System.out
- b) System.err
- c) System.in
- d) All the above
- e) None of the above

26. Which is not a member of java.io package?

- a) ObjectFilter
- b) ObjectOutputStream
- c) FileWriter
- d) FileInputStream

27. Exceptions occur due to?

- a) Console
- b) Syntax Errors
- c) complex logic
- d) None of the above

28. If memory is not enough to create objects then we will get what error?

- a) LinkageError
- b) AssertionError
- c) OutOfMemoryError
- d) StackOverflowError

29. Which is a fully checked exception?

- a) RuntimeException
- b) NullPointerException
- c) ServletException
- d) IOException

30. Which class is used to read the data line by line procedure?

- a) BufferedReader
- b) InputStreamReader
- c) FileReader
- d) Reader

### **Programs**

1. Write a java program to display permutation of a string i.e "ABC"?
2. Write a java program to display Nth element of Fibonacci series?
3. Write a java program to display Second highest element from given array without using Arrays class?
4. Write a java program to display prime numbers from 1 to 100?
5. Write a java program to display below loop pattern?

```
1
1 2 1
1 2 3 2 1
1 2 3 4 3 2 1
```

