

Q1 - Consider the following program and predict the output:

```
public class Demo {  
    public void toPrint(Integer i) {  
        System.out.println("Integer");  
    }  
  
    public void toPrint(int i) {  
        System.out.println("int");  
    }  
  
    public void toPrint(long i) {  
        System.out.println("long");  
    }  
  
    public static void main(String args[]) {  
        Demo test = new Demo();  
        test.toPrint(10);  
    }  
}
```

- a) The program results in a compiler error ("ambiguous overload").
- b) long
- c) Integer
- d) int

Q2 - What is the output of the following application?

```
class Automobile {  
    private String drive() {  
        return "Driving vehicle";  
    }  
}
```

```
class Car extends Automobile {  
    protected String drive() {  
        return "Driving car";  
    }  
}
```

```
public class ElectricCar extends Car {
```

```

@Override
public final String drive() {
    return "Driving electric car";
}

public static void main(String[] wheels) {
    final Car car = new ElectricCar();
    System.out.print(car.drive());
}
}

```

- A. Driving vehicle
- B. Driving electric car
- C. Driving car
- D. The code does not compile

3. Class at top of exception hierarchy is

- A. ArithmeticException
- B. Throwable
- C. Object
- D. Exception

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

- A. try
- B. throwing
- C. catch
- D. throw

5 Which of these packages contains the exception Stack Overflow in Java?

- a) java.io
- b) java.system
- c) java.lang
- d) java.util

6 What will be the output of the following Java program?

```

import java.util.*;
class Collection_iterators
{
    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) 1 2 5 8
- b) 2 1 8 5
- c) 1 5 8 2
- d) 2 8 5 1

7 Which of these keywords are used for the block to be examined for exceptions?

- a) check
- b) throw
- c) catch
- d) try

8. What will be the output of the following Java code snippet?

```

class abc
{
    public static void main(String args[])
    {
        if(args.length>0)
            System.out.println(args.length);
    }
}

```

- a) The snippet compiles and runs but does not print anything
- b) The snippet compiles, runs and prints 0
- c) The snippet compiles, runs and prints 1
- d) The snippet does not compile

9 What will be the output of the following Java program?

```
class leftshift_operator
{
    public static void main(String args[])
    {
        byte x = 64;
        int i;
        byte y;
        i = x << 2;
        y = (byte) (x << 2)
        System.out.print(i + " " + y);
    }
}
```

- a) 0 256
- b) 0 64
- c) 256 0
- d) 64 0

10 What will be the error in the following Java code?

```
byte b = 50;
b = b * 50;
```

- a) b cannot contain value 50
- b) b cannot contain value 100, limited by its range
- c) No error in this code
- d) \* operator has converted b \* 50 into int, which can not be converted to byte without casting

11 What is not the use of "this" keyword in Java?

- a) Referring to the instance variable when a local variable has the same name
- b) Passing itself to the method of the same class
- c) Passing itself to another method

d) Calling another constructor in constructor chaining

12 What will be the output of the following Java code?

```
class output
{
    public static void main(String args[])
    {
        String s1 = "Hello i love java";
        String s2 = new String(s1);
        System.out.println((s1 == s2) + " " + s1.equals(s2));
    }
}
```

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

13 In the following Java code, which code fragment should be inserted at line 3 so that the output will be: "123abc 123abc"?

- 1. `StringBuilder sb1 = new StringBuilder("123");`
  - 2. `String s1 = "123";`
  - 3. `// insert code here`
  - 4. `System.out.println(sb1 + " " + s1);`
- a) `sb1.append("abc"); s1.append("abc");`
  - b) `sb1.append("abc"); s1.concat("abc");`
  - c) `sb1.concat("abc"); s1.append("abc");`
  - d) `sb1.append("abc"); s1 = s1.concat("abc");`

14 What would be the behaviour if one parameterized constructor is explicitly defined?

- a) Compilation error
- b) Compilation succeeds
- c) Runtime error
- d) Compilation succeeds but at the time of creating object using default constructor, it throws compilation error

15 What would be behaviour if the constructor has a return type?

- a) Compilation error
- b) Runtime error
- c) Compilation and runs successfully
- d) Only String return type is allowed

16 Which of this method is used to avoid polling in Java?

- a) wait()
- b) notify()
- c) notifyAll()
- d) all of the mentioned

17 What will be the output of the following Java code?

```
public class San
{
    public static void main(String[] args)
    {
        try
        {
            return;
        }
        finally
        {
            System.out.println( "Finally" );
        }
    }
}
```

- a) Finally
- b) Compilation fails
- c) The code runs with no output
- d) An exception is thrown at runtime

18 Which of the below is invalid identifier with the main method?

- a) public
- b) static
- c) private
- d) final

19 What is it called where object has its own lifecycle and child object cannot belong to another parent object?

- a) Aggregation
- b) Composition
- c) Encapsulation
- d) Association

20 What will be the output of the following Java program, if we run as "java main\_arguments 1 2 3"?

```
class main_arguments
{
    public static void main(String [] args)
    {
        String [][] argument = new String[2][2];
        int x;
        argument[0] = args;
        x = argument[0].length;
        for (int y = 0; y < x; y++)
            System.out.print(" " + argument[0][y]);
    }
}
```

a) 1 1  
b) 1 0  
c) 1 0 3  
d) 1 2 3

21 class Base extends Exception {}  
class Derived extends Base {}

```

public class Main {
    public static void main(String args[]) {
        // some other stuff
        try {
            // Some monitored code
            throw new Derived();
        }
        catch(Base b) {
            System.out.println("Caught base class exception");
        }
        catch(Derived d) {
            System.out.println("Caught derived class exception");
        }
    }
}

```

- a Caught base class exception
- b Caught derived class exception
- c Compiler Error because derived is not throwable
- d Compiler Error because base class exception is caught before derived class

22 class Test

```

{
    String str = "a";

    void A()
    {
        try
        {
            str += "b";
            B();
        }
        catch (Exception e)
        {
            str += "c";
        }
    }

    void B() throws Exception
    {
        try

```



```

    {
        str += "d";
        C();
    }
    catch(Exception e)
    {
        throw new Exception();
    }
    finally
    {
        str += "e";
    }

    str += "f";

}

void C() throws Exception
{
    throw new Exception();
}

void display()
{
    System.out.println(str);
}

public static void main(String[] args)
{
    Test object = new Test();
    object.A();
    object.display();
}

}

```

- A abdef
- B abdec
- C abdefc

23 When does method overloading is determined?

- a) At run time
- b) At compile time
- c) At coding time
- d) At execution time

24 Which of the following is not OOPS concept in Java?

- a) Inheritance
- b) Encapsulation
- c) Polymorphism
- d) Compilation

25 Method overriding is combination of inheritance and polymorphism?

- a) True
- b) false

26 Which of these cannot be declared static?

- a) class
- b) object
- c) variable
- d) method

27 What will be the output of the following Java program?

```
class Output
{
    public static void main(String args[])
    {
        int a1[] = new int[10];
        int a2[] = {1, 2, 3, 4, 5};
        System.out.println(a1.length + " " + a2.length);
    }
}
```

- a) 10 5
- b) 5 10
- c) 0 10

d) 0 5

28 Which of these keywords is used to prevent content of a variable from being modified?

- a) final
- b) last
- c) constant
- d) static

29

In java control statements break, continue, return, try-catch-finally and assert belongs to?

- A. Selection statements
- B. Loop Statements
- C. Transfer statements
- D. Pause Statement

30

In which of the following is toString() method defined?

- a) java.lang.object
- b) java.lang.String
- c) java.lang.util
- d) none