Java Test

Q1.Java Programs are:-
1. Platform Dependent
2. Interpreter-Dependent
3. Platform Independent
4. Interpreter-Independent

Q2. The java Compiler
1. Creates Executable
2. Translate java source code into byte code
3. Creates Class
4. Produces java Interpreter

Q3. Command to execute a compiled java program is
1. javac
2. Java
3. Run
4. Execute

Q 4. What is the output of this program?
```
class Box {
int width;
int height;
int length;
}
class mainclass {
public static void main(String args[])
{
Box obj = new Box();
System.out.println(obj);
}
}
```

a) 0 b) 1 c) Runtime error d) Garbage value.

Q5.Which of the following statements are incorrect about Constructors?
a) Default constructor is added by the compiler, if the program doesn't contain any constructor.
b) Constructor can contain argument.
c)Constructor can be Overridden.
d)Constructor cannot contain return Statement.

Q6. What would be the behaviour if this() and super() used in a method?
a) Runtime error
b) Throws exception
c) compile time error
d) Runs successfully

Q7. Which of these keyword can be used in subclass to call the constructor of superclass?
a) super
b) this
c) extent
d) extends

Q8. What is the output of this program?

```
final class A
 {
    int i;
 }
 class B extends A
 {
    int j;

 }
 class inheritance
 {          public static void main(String args[])
   {
      B rv1 = new B();
      System.out.println("j value is"+j);
       System.out.println("i value is"+i);

   }
 }
```

   a)2 2
   b) 0 0
   c) Runtime Error
   d) Compilation Error

Q9) Static members are not inherited to subclass.
a) True
b) False

Q10) what is the output of this program?
```
 class Demo
  {
    public static void default()
    {
       int i=20;
     System.out.println(i++);
    }
    public static void main(String[] args)
    {
      default();

    }
}
```

a)20;
b)21;
c)compilation error
d)Runtime error

Q11) What is the output of this program?

```
class Demo
    {
      public static void main(String args[])
      {
        int i = 5;
        int j = 6;
        if ((j= 1) == i)
        System.out.print(j);
         else
        System.out.print(++j);
      }
     }
```

a)   1
b)   2
c)   3
d)   4

Q12) What is the output of this program?

```
if(a<=0)
{
  if(a==0)
  {
    System.out.println("1 ");
  }
  else
  {
    System.out.println("2 ");
  }
}
 System.out.println("3 ");
```

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

Q13) What is the output of this program?

```
class Sample
  {
    public static void main(String args[])
    {
      int i = 5;
      int j = 6;
      System.out.print(var1 > var2);
    }
```

```
    }
```
a) 1
b) 0
c) true
d) false

Q14) What is the output of this program?
```
  1. x++;
  2. x = x + 1;
  3. x += 1;
  4. x =+ 1;
```
a) 1, 2 & 3
b) 1 & 4
c) 1, 2, 3 & 4
d) 3 & 2

Q15. What is the process of defining a method in subclass having same name & type signature as a method in its superclass?
a) Method overloading
b) Method overriding
c) Method hiding
d) None of the mentioned

Q16. Which of these keyword can be used in subclass to call the constructor of subclass?
a) super
b) this
c) extent
d) extends

Q17. If a class inheriting an abstract class does not implement all of its methods then it will be known as?
a) abstract
b) A simple class
c) Static class
d) None of the mentioned

Q18)String in Java is a?
a) class
b) object
c) variable
d) character array

Q19)Which of these method of String class is used to obtain character at specified index?
a) char()
b) Charat()
c) charat()
d) charAt()

Q20) What is the output of this program?

```
class Sample
    {
        public static void main(String args[])
        {
            String rv1 = "I LIKE JAVA";
            System.out.println(rv1.length());
        }
    }
```

      a)9
      b) 10
      c) 11
      d) 12

Q21) when does method overloading is determined?
a) At run time
b) At compile time
c) At coding time
d) At execution time

Q22) Which of these is used to access member of class before object of that class is created?
a)public
b)private
c)static
d)protected

Q23) Arrays in Java are implemented as?
a)class
b)object
c)variable
d)None of the mentioned

Q24) What is the output of this program?

```
class Demo
{
    public static void main(String args[])
    {
        int a,b,c,d;
        a=b=c=d=20
        a+=b-=c*=d/=20
        System.out.println(a+" "+b+" "+c+" "+d);

    }
}
```

      a)compile time error
      b) runtime error
      c) a=20 b=0 c=20 d=1
      d) none of the mentioned

Q25)What happens when constructor is defined for an interface?
a) Compilation failure
b) Runtime Exception
c) The interface compiles successfully
d) The implementing class will throw exception

Q26) What type of methods an interface contain by default?
a) abstract
b) static
c) final
d) private

Q27) What is the output of this program?

```java
class Output
{
    public static void main(String args[])
    {
        int a = 1;
        int b = 2;
        int c;
        int d;
        c = ++b;
        d = a++;
        c++;
        b++;
        ++a;
        System.out.println(a + " " + b + " " + c);
    }
}
```

a) 3 2 4
b) 3 2 3
c) 2 3 4
d) 3 4 4

Q28)What is the output of this program?

```java
class increment
{
    public static void main(String args[])
    {
        int i = 3;
        System.out.print(++i * 8);
    }
}
```

a) 25
b) 24
c) 32
d) 33

Q29) Which of these is an incorrect array declaration?
a) int arr[] = new int[5]
b) int [] arr = new int[5]
c) int arr[] = new int[5]
d) int arr[] = int [5] new

Q30) What is the output of this program?

```
class Sample
{
   public static void main(String args[])
   {
      int arr[][] = new int[3][];
      arr[0] = new int[1];
      arr[1] = new int[2];
      arr[2] = new int[3];
        int sum = 0;
        for (int i = 0; i < 3; ++i)
           for (int j = 0; j < i + 1; ++j)
           arr[i][j] = j + 1;
        for (int i = 0; i < 3; ++i)
           for (int j = 0; j < i + 1; ++j)
           sum + = arr[i][j];
      System.out.print(sum);
   }
}
```

a) 11
b) 10
c) 13
d) 14

Q31) **What is the first statement in a default Constructor?**

a)this()
b)super()
c)both
d) anyone one of them
e) depends on programmer

Q32) Can we define a method with same name of class?

   a) True
   b) False
   c) Error

Q 33) If we place return type in constructor prototype?

   a) Error
   b) No error

Q 34) Which of the following statements are valid ?

    a) public static void main(String[] args)
    b) static public void main(String[] args)

    c) public static void main(String args[])

    d) public void static main(String[] args)

Q 35) Can We Declare main() Method As Non-Static?

    a) True
    b) False