Assignment – Worksheet 1

Q1. What is the size of float and double in java?
Answer: A. 32 and 64

Q2. Automatic type conversion is possible in which of the possible cases?
Answer: B. Int to long

Q3. Find the output of the following code.
```
int Integer = 24;
char String = 'I';
System.out.print(Integer);
System.out.print(String);
```
Answer: D. 24 I will be printed

Q4. Find the output of the following program.
```
public class Solution{
public static void main(String[] args){
short x = 10;
x = x * 5;
System.out.print(x);
    }
}
```
Answer: C. Compile error (Type mismatch: cannot convert from int to short)

Q5. Find the output of the following program
```
public class Solution{
public static void main(String[] args){
byte x = 127;
x++;
x++;
System.out.print(x);
    }
}
```
Answer: A. -127

Q6. Select the valid statement.
Answer: B. char[] ch = new char[5]

Q7. Find the output of the following program.

```
public class Solution{
public static void main(String[] args){
int[] x = {120, 200, 016};
for(int i = 0; i < x.length; i++){
        System.out.print(x[i] + " ");
        }
        }
}
```

Q8. When an array is passed to a method, what does the method receive?
Answer: A. The reference of the array

Q9. Find the value of A[1] after execution of the following program.

```
int[] A = {0,2,4,1,3};
for(int i = 0; i < a.length; i++){
        a[i] = a[(a[i] + 3) % a.length];
        }
```

Q10. When is the object created with a new keyword?

Q11. Identify the corrected definition of a package.

Q12. Identify the keyword among the following that makes a variable belong to a class, rather than being defined for each instance of the class.

Q13. Identify what can directly access and change the value of the variable res.

```
Package com.mypackage;
Public class Solution{
        Private int res = 100;
}
```

Q14. In which of the following is the toString() method defined?
==Answer: A. java.lang.Object==

Q15. Identify the output of the following program.
     String str = "abcde";
     System.out.println(str.substring(1, 3));
==Answer: B. bc==

Q16. Identify the output of the following program.
     String str = "Hellow";
     System.out.println(str.indexOf('t'));
==Answer: D. -1==

Q17. Identify the output of the following program.
     Public class Test{
         Public static void main(String argos[]){
            String str1 = "one";
            String str2 = "two";
            System.out.println(str1.concat(str2));
         }
     }
==Answer: C. onetwo==

Q18. How many objects will be created in the following?
     String a = new String("FlipRobo");
     String b = new String("FlipRobo");
     String c = "FlipRobo";
     String d = "FlipRobo";
==**Answer: B. 3 (With new keyword a new object is create every time. But since the string in third and fourth statement are same, only one object is created for third statement and a reference for the fourth)**==

Q19. Find the output of the following code.
     int ++a = 100;
     System.out.println(++a);
==**Answer: B. Compile error as ++a is not valid identifier**==

Q20. Find the output of the following code.

```
if(1 + 1 + 1 + 1 + 1 == 5){
        System.out.print("TRUE");
}
else{
        System.out.print("FALSE");
}
```

Answer: A. TRUE (Since the value of expression 1+1+1+1+1 is 5 and 5 is equal to 5)

Q21. Find the output of the following code.

```
Public class Solution{
        Public static void main(String args[]){
                Int x = 5;
                x * = (3 + 7);
                System.out.println(x);
        }

}
```

Answer: A. 50

Q22.Identify the return type of a method that does not return any value.

Answer: B. void

Q23.Output of Math.floor(3.6)?

Answer: B. 3.0

Q24. Identify the modifier which cannot be used for constructor.

Answer: D. static

Q25. What are the variables declared in a class for the use of all methods of the class called?

Answer: B. Instance variables

Q26. Find the output of the following code.

```
Public class Solution{
    Public static void main(String args[]){
        Int i;
        for(i = 1; i < 6; i++){
        if(i > 3) continue;
    }
    System.out.println(i);
    }
}
```

Q27. Identify the infinite loop.

Q28.Exception created by try block is caught in which block

Q29.Which of the following exception is thrown when divided by zero statement is executed?

Q30.Where is System class defined?