

FULL STACK DEVELOPMENT – WORKSHEET 1

- All questions are multiple choice.

Q1. What is the size of float and double in java?

- A. 32 and 64
- B. 32 and 32
- C. 64 and 64 Worksheet1
- D. 64 and 32

Ans: A) 32 and 64

Q2. Automatic type conversion is possible in which of the possible cases?

- A. Byte to int
- B. Int to long
- C. Long to int
- D. Short to int

Ans: 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);
```

- A. Compile error
- B. Throws exception
- C. I
- D. 24 I

Ans: D) 24I

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);  
    }  
}
```

- A. 50
- B. 10
- C. Compile error
- D. Exception

Ans: A) 50

Code: `public class` Question4 {
 `public static void` main(String[] args){
 `short` x = 10;
 x =(`short`)(x*5);
 System.`out`.print(x);
 }
}

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);  
    }  
}
```

- A. -127

B. 127

C. 129

D. 2

Ans: A) -127

```
Code: public class Question5 {  
    public static void main(String[] args){  
        byte x = 127;  
        x++;  
        x++;  
        System.out.print(x);  
    }  
}
```

Q6. Select the valid statement.

A. char[] ch = new char(5)

B. char[] ch = new char[5]

C. char[] ch = new char()

D. char[] ch = new char[]

Ans: 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] + “ “);  
  
        } }  
  
}
```

A. 120 200 016

B. 120 200 14

C. 120 200 16

D. None

Ans: B) 120 200 14

Code:

```
public class Question7 {  
    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?

- A. The reference of the array
- B. A copy of the array
- C. Length of the array
- D. Copy of first element

Ans: 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];  
}
```

- A. 0
- B. 1
- C. 2
- D. 3

Ans: B) 1

Code:

```
public class Question9 {  
    public static void main(String[] args) {  
        int[] A = {0,2,4,1,3};  
        for(int i = 0; i < A.length; i++){  
            A[i] = A[(A[i] + 3) % A.length];  
        }  
        System.out.println(A[1]);  
    }  
}
```

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

- A. At run time
- B. At compile time
- C. Depends on the code

D. None

Ans: A) At run time.

Q11. Identify the corrected definition of a package.

A. A package is a collection of editing tools

B. A package is a collection of classes

C. A package is a collection of classes and interfaces

D. A package is a collection of interfaces

Ans: C) A package is a collection of classes and interfaces

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.

A. final

B. static

C. volatile

D. abstract

Ans: B) static

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

```
Package com.mypackage;
```

```
Public class Solution{
```

```
Private int res = 100;
```

```
}
```

A. Any class

B. Only Solution class

C. Any class that extends Solution

D. None

Ans: B) Only Solution class

Q14. In which of the following is the toString() method defined?

A. java.lang.Object

B. java.lang.String

C. java.lang.util

D. None

Ans: A) java.lang.Object

Q15. Identify the output of the following program.

String str = "abcde";

System.out.println(str.substring(1, 3));

A. abc

B. bc

C. bcd

D. cd

Ans: B) bc

Code:

```
public class Question15 {  
    static String str = "abcde";  
    public static void main(String[] args) {  
        System.out.println(str.substring(1, 3));  
    }  
}
```

Q16. Identify the output of the following program.

String str = "Hellow";

System.out.println(str.indexOf('t'));

A. 0

B. 1

C. true

D. -1

Ans: D) -1

Code:

```
public class Question16 {  
    static String str = "Hellow";  
    public static void main(String [] args) {  
        System.out.println(str.indexOf('t'));}  
}
```

Q17. Identify the output of the following program.

```
Public class Test{  
Public static void main(String args[]){  
String str1 = "one";  
String str2 = "two";  
System.out.println(str1.concat(str2));  
}  
}
```

- A. one
- B. two
- C. onetwo
- D. twoone

Ans: C) onetwo

Code: `public class` Question17 {

 `public static void` main(String args[]){
 String str1 = "one";
 String str2 = "two";
 System.out.println(str1.concat(str2));}}}

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";

- A. 2
- B. 3
- C. 4
- D. None

Ans: B) 3

Q19. Find the output of the following code.

```
int ++a = 100;
```

```
System.out.println(++a);
```

A. 101

B. Compile error as ++a is not valid identifier

C. 100

D. None

Ans: B) Error

Syntax error on token "++", delete this token
a cannot be resolved to a variable

Code: if removed ++ and added static variable

```
public class Question19 {  
    static int a = 100;  
    public static void main(String[] args) {  
        System.out.println(++a);  
    }  
} //output is: 101
```

Q20. Find the output of the following code.

```
if(1 + 1 + 1 + 1 + 1 == 5){
```

```
System.out.print("TRUE");
```

```
}
```

```
else{
```

```
System.out.print("FALSE");
```

```
}
```

A. TRUE

B. FALSE

C. Compile error

D. None

Ans: A) TRUE

Code: public class Question20 {

```
    public static void main(String[] args) {  
        if(1 + 1 + 1 + 1 + 1 == 5){  
            System.out.print("TRUE");  
        }  
    }
```



```
    Else {  
System.out.print("FALSE");  
}}
```

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);
```

- A. 50
- B. 22
- C. 10
- D. None

Ans: A) 50

Code:

```
public class Question21 {  
  
    public static void main(String[] args) {  
        int x = 5;  
        x *= (3 + 7);  
        System.out.println(x);  
    }  
}
```

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

- A. int
- B. void
- C. double
- D. None

Ans: B) void

Q23. Output of Math.floor(3.6)?

- A. 3
- B. 3.0
- C. 4

D. 4.0

Ans: B) 3.0

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

- A. public
- B. protected
- C. private
- D. static

Ans: D) static

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

- A. Object
- B. Instance variables
- C. Reference variable
- D. None

Ans: 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);  
  
} }
```

- A. 3
- B. 4
- C. 5

D. 6

Ans: D) 6

Code of program:

```
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.

- A. for(;;)
- B. for(int i = 0; i < 1; i--)
- C. for(int i = 0; ;i++)
- D. All of the above

Ans: D) All of the above

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

- A. catch
- B. throw
- C. final
- D. none

Ans: A) catch

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

- A. NullPointerException
- B. NumberFormatException
- C. ArithmeticException
- D. None

Ans: C) ArithmeticException

Q30.Where is System class defined?

A. java.lang.package

B. java.util.package

C. java.io.package

D. None

Ans: A. java.lang.package