

MCQ Practice Questions

Q1) 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

Ans: C

Q2) What is the extension of compiled java classes?

- a) .txt
- b) .js
- c) .class
- d) .java

Answer: c

Q3) What will be the output of the following Java code?

```
class array_output
{
    public static void main(String args[])
    {
        int array_variable[][] = {{ 1, 2, 3}, { 4 , 5, 6}, { 7, 8, 9}};
        int sum = 0;
        for (int i = 0; i < 3; ++i)
            for (int j = 0; j < 3 ; ++j)
                sum = sum + array_variable[i][j];
        System.out.print(sum / 5);
    }
}
```

- a) 8
- b) 9
- c) 10
- d) 11

Answer: b

Q4) Which of these is an incorrect Statement?

- a) It is necessary to use new operator to initialize an array
- b) Array can be initialized using comma separated expressions surrounded by curly braces
- c) Array can be initialized when they are declared
- d) None of the mentioned

Answer: a

Q5) What will be the output of the following Java program?

```

class bitwise_operator
{
    public static void main(String args[])
    {
        int var1 = 42;
        int var2 = ~var1;
        System.out.print(var1 + " " + var2);
    }
}

```

- a) 42 42
- b) 43 43
- c) 42 -43
- d) 42 43

Answer: c

Q6) Which of these statements are incorrect?

- a) The left shift operator, <<, shifts all of the bits in a value to the left specified number of times
- b) The right shift operator, >>, shifts all of the bits in a value to the right specified number of times
- c) The left shift operator can be used as an alternative to multiplying by 2
- d) The right shift operator automatically fills the higher order bits with 0

Answer: d

Q7) Which of these method of Object class can clone an object?

- a) Objectcopy()
- b) copy()
- c) Object clone()
- d) clone()

Answer: c

Q8) What will be the output of the following Java program?

```

class A
{
    int i;
    int j;
}

```

```

    A()
    {
        i = 1;
        j = 2;
    }
}
class Output
{
    public static void main(String args[])
    {
        A obj1 = new A();
        A obj2 = new A();
        System.out.print(obj1.equals(obj2));
    }
}

```

- a) false
- b) true
- c) 1
- d) Compilation Error

Answer: a

Q10) Which of these class relies upon its subclasses for complete implementation of its methods?

- a) Object class
- b) abstract class
- c) ArrayList class
- d) None of the mentioned

Answer: b

Q1) What will be the output of the following Java program?

```
class A
{
    int i;
}

class B extends A
{
    int j;
    void display()
    {
        super.i = j + 1;
        System.out.println(j + " " + i);
    }
}

class inheritance
{
    public static void main(String args[])
    {
        B obj = new B();
        obj.i=1;
        obj.j=2;
        obj.display();
    }
}
```

a) 2 2

b) 3 3

c) 2 3

d) 3 2

Ans: c

Q2) What is the output of the Java program with IF-ELSE-IF statements?

```
int marks=55;
```

```
if(marks >= 80)
```

```
    System.out.println("DISTINCTION");
```

```
else if(marks >=35)
```

```
    System.out.println("PASS");
```

```
else
```

```
    System.out.println("FAIL");
```

A) DISTINCTION

B) PASS

C) FAIL

D) Compiler error

Ans: B

Q3) What is the output of this program?

```
class Main
```

```
{
```

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

```
    {
```

```
        int arr1[] = {1, 2, 3};
```

```
        int arr2[] = {1, 2, 3};
```

```
        if (arr1.equals(arr2))
```

```
            System.out.println("Same");
```

```
        else
```

```
        System.out.println("Not same");  
    }  
}
```

- A. Same
- B. Not Same
- C. Compiler error
- D. None of the above

Ans : B

Q4) What is the output of a Bitwise OR (|) operation if both the inputs are 1s?

- A) 0
- B) 1
- C) 0 or 1
- D) None of the above

Ans: B

Q5) How many maximum numbers of objects can be created from a single Class in Java?

- A) 32
- B) 64
- C) 256
- D) None

Ans: D

Q1) What will be the output of the following Java code?

```
class Output
```

```
{  
    public static void main(String args[])  
    {  
        double x = 3.14;  
        int y = (int) Math.ceil(x);  
        System.out.print(y);  
    }  
}
```

- a) 3
- b) 0
- c) 4
- d) 3.0

Answer: c

Q2) Which of the following is a superclass of every class in Java?

- a) ArrayList
- b) Abstract class
- c) Object class
- d) String

View Answer

Answer: c

Q3) What is the output of the Java program with IF-ELSE statements?

```
if(TRUE)
```

```
    System.out.println("GO");
```

```
else
```

```
    System.out.println("STOP");
```

- A) GO
- B) STOP
- C) Compiler error
- D) None

Ans: C

Q4) What is the output of the Java program?

```
int a=10;
```

```
if(a==9)
```

```
    System.out.println("OK ");
```

```
    System.out.println("MASTER");
```

```
else
```

```
    System.out.println("BYE");
```

A) OK MASTER

B) BYE

C) Compiler error

D) None

Ans: C

Q5) What will be the output of the following Java code?

```
class Output
```

```
{
```

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

```
    {
```

```
        Integer i = new Integer(257);
```

```
        byte x = i.byteValue();
```

```
        System.out.print(x);
```

```
    }
```

```
}
```

a) 257

b) 256

c) 1

d) 0

Answer: c

Q6) If relational operators are present in an expression, what type of other operators may be used?

- A) Logical operators
- B) Bitwise operators
- C) A and B
- D) None of the above

Ans: A

Q7) What is this >> bitwise operator in Java?

- A) Left shift operator
- B) Right shift operator
- C) Left Shift Fill Zero operator
- D) Right Shift Fill Zero operator

Ans: B

Q8) What is the output of the Java code snippet?

```
byte a = 0b0000_0001;
```

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

- A) -1
- B) -2
- C) 254
- D) +127

Ans: B

Q9) Which of these method of Object class is used to obtain class of an object at run time?

- a) get()
- b) void getClass()
- c) Class getClass()
- d) None of the mentioned

Answer: c

Q10) What are the features reused using Inheritance in Java?

- A. Variables
- B. Constants

C. Methods

D. All the above

Ans :- D

Q1) Which of these statements are incorrect?

- a) The left shift operator, <<, shifts all of the bits in a value to the left specified number of times.
- b) The right shift operator, >>, shifts all of the bits in a value to the right specified number of times.
- c) The left shift operator can be used as an alternative to multiplying by 2.
- d) The right shift operator automatically fills the higher order bits with 0.

Answer: d

Q2) What will be the output of the following Java program?

```
class Output
{
    public static void main(String args[])
    {
        final int a=10,b=20;
        while(a<b)
        {

            System.out.println("Hello");

        }
        System.out.println("World");

    }
}
```

- a) Hello
- b) run time error
- c) Hello world
- d) compile time error

Answer: d

Q3) What will be the output of the following Java program?

```
class A
{
    int i;
    int j;
    A()
    {
        i = 1;
        j = 2;
    }
}

class Output
{
    public static void main(String args[])
    {
        A obj1 = new A();
        A obj2 = new A();
        System.out.print(obj1.equals(obj2));
    }
}
```

- a) false
- b) true
- c) 1

d) Compilation Error

[View Answer](#)

Answer: a

Q4) Which of these is correct way of calling a constructor having no parameters, of superclass A by subclass B?

- A. `super(void);`
- B. `superclass.();`
- C. `super.A();`
- D. `super();`

Ans :- D

Q5) Which of these packages contains abstract keyword?

- A. `java.lang`
- B. `java.util`
- C. `java.io`
- D. `java.system`

[View Answer](#)

Ans :- A

1) Which of the following is the advantage of java array?

- a) Code Optimization
- b) Random access
- c) Size No-Limit
- d) Both A and B**

2) In java, array elements are stored in _____ memory locations.

- a) Random

b) Sequential

c) Sequential & Random

d) Binary search

3) What will be the output of the program?

```
int arr[] = new int [5];
```

```
System.out.print(arr);
```

a) 0

b) value stored in arr[0].

c) 0

d) Class name@ hashCode in hexadecimal form

4) Which of these operators is used to allocate memory to array variable in Java?

a) malloc

b) alloc

c) new

d) new malloc

5) In Java arrays are

a) objects

b) object references

c) primitive data type

d) None of the above

6) Which of these is an incorrect Statement?

a) It is necessary to use new operator to initialize an array

b) Array can be initialized using comma separated expressions surrounded by curly braces

c) Array can be initialized when they are declared

d) None of the mentioned

7) How to sort an array?

a) Array.sort()

b) Arrays.sort()

c) Collection.sort()

d) System.sort()

8) Where is an array stored in memory?

a) heap space

b) stack space

c) heap space and stack space

d) first generation memory

9) Which of these methods of Array class is used to sort an array or its subset?

a) binarysort()

b) bubblesort()

c) sort()

d) insert()

10) Which of these methods can be used to search an element in a list?

a) find()

b) sort()

c) get()

d) binaryserach()

1) Which code line could possibly "call" this method?

```
public static int SomeMethod(double[ ] array, int[ ] number)
{
    ...
}
```

a) int value = SomeMethod(money, grades);

b) SomeMethod(money, grades);

c) double value = SomeMethod(money, grades);

d) int value = SomeMethod(money)

2) Which of the following is FALSE about arrays in Java?

a) java array is always an object

b) Length of array can be changed after creation of array

c) Arrays in Java are always allocated on heap

3) What are arrays of arrays with each element of the array holding the reference of other arrays?

a) No Dimensional

b) Two Dimensional

c) Multidimensional

d) None of these

4) Output of following Java program?

class Test


```

{
    public static void main (String[] args)
    {
        int arr1[] = {1, 2, 3};
        int arr2[] = {1, 2, 3};
        if (arr1 == arr2)
            System.out.println("Same");
        else
            System.out.println("Not same");
    }
}

```

a) Same

b) Not Same

5) What will be the output of the program?

```

class Test {
    public static void main(String args[]) {
        int arr[] = new int[2];
        System.out.println(arr[0]);
        System.out.println(arr[1]);
    }
}

```

a) 0

0

b) garbage value

garbage value

c) Compiler Error

d) Exception

1) Which of the following is not a decision making statement?

- a) if
- b) if-else
- c) switch
- d) do-while**

2) In Java, to create a sub class, keyword '_____' is used in the class definition.

- a) Extends**
- b) Int
- c) Float
- d) Create

3) Which of the following defines attributes and methods ?

- a) Class**
- b) Object
- c) Instance
- d) Variable

4) Operator_____allocates the memory for an object and returns the address of the object for later use.

- a) Int
- b) Float
- c) New**
- d) Real

5) Java does not support multiple_____

- a) Polymorphism
- b) Parameters
- c) Inheritance**
- d) All of these

6) What is the maximum number of levels possible in a Multilevel Inheritance in Java?

- a) 8
- b) 16
- c) 32
- d) No maximum level**

7) With empty parentheses without arguments, a default_____is called.

- a) Function
- b) Constructor**

- c) Class
- d) Method

8) At time of array initialization which is necessary to specify?

a) Row

- b) Column
- c) Row and Column
- d) None of the above

9) Which of the following is correct?

X: Primitive data types are passed by reference.

Y: Java only supports pass by value. With objects, the object reference itself is passed by value and so both the original reference and parameter copy both refer to the same object .

a) X only

b) Y only

- c) Both are correct
- d) Both are incorrect

10) Which of these methods can be used to search an element in a list?

- a) find()
- b) sort()
- c) get()
- d) binarysearch()**

```
11) public class ControlStatement {  
    public static void main(String[] args) {  
        int a = 5;  
        int b = 5;  
        if(a>>2 < ++b){  
            System.out.println("A less than B");  
        }else{  
            System.out.println("A greater than B");  
        }  
    }  
}
```

a) A less than B

- b) A greater than B
- c) Compile time error

12) What is the correct output of this program ?

```
int i = 70;  
    for(; i>60; ){  
        System.out.print(" "+i);
```

```

        i--;
    }
    public class LoopExample {
        public static void main(String[] args) {
            int i = 70;
            for(; i>60; ){
                System.out.print(" "+i);
                i--;
            }
        }
    }
}

```

- a) Run time Error
- b) Compile time error
- c) 70 69 68 67 66 65 64 63 62 61**
- d) 70 69 68 67 66 65 64 63 62

13) What will be the output of the following Java code?

```

class Output
{
    public static void main(String args[])
    {
        Object obj = new Object();
        System.out.print(obj.getClass());
    }
}

```

- a) Object
- b) class Object
- c) class java.lang.Object**
- d) Compilation Error

14) How many times 'Hello' is printed?

```

public class CppBuzz {
    public static void main(String[] args){
        for(int i = 0; i<5; i=5 )
        {
            System.out.println("Hello");
        }
    }
}

```

- a) 5
- b) 4
- c) 2
- d) 1**

15) Identify the type of msg variable.

```
public class TestMain {  
    public static void main(String[] args) {  
        String msg = "Hello World"; // msg variable name  
        System.out.println(msg);  
    }  
}
```

- a) Instance Variable
- b) Class Variable
- c) Local Variable**

1) Which of these selection statements test only for equality?

a) if

b) switch

c) if & switch

d) none of the mentioned

2) Which of the following loops will execute the body of loop even when condition controlling the loop is initially false?

a) do-while

b) while

c) for

d) none of the mentioned

3) Which of these jump statements can skip processing the remainder of the code in its body for a particular iteration?

a) break

b) return

c) exit

d) continue

4) Which of this statement is incorrect?

a) switch statement is more efficient than a set of nested ifs

b) two case constants in the same switch can have identical values

c) switch statement can only test for equality, whereas if statement can evaluate any type of boolean expression

d) it is possible to create a nested switch statements

5) The while loop repeats a set of code while the condition is not met?

a) True

b) False

6) What is true about a break?

a) Break stops the execution of entire program

b) Break halts the execution and forces the control out of the loop

c) Break forces the control out of the loop and starts the execution of next iteration

d) Break halts the execution of the loop for certain time frame

7) What is true about do statement?

a) do statement executes the code of a loop at least once

b) do statement does not get execute if condition is not matched in the first iteration

c) do statement checks the condition at the beginning of the loop

d) do statement executes the code more than once always

8) Which of the following is used with the switch statement?

a) Continue

b) Exit

c) break

d) do

9) Which of the following is not a decision making statement?

a) if

b) if-else

c) switch

d) do-while

10) Which of the following is not a valid jump statement?

a) break

b) goto

c) continue

d) return

11) What is the output of the Java program?

```
int a=10;
```

```
if(a==9)
```

```
    System.out.println("OK ");
```

```
    System.out.println("MASTER");
```

```
else
```

```
    System.out.println("BYE");
```

a) OK MASTER

b) BYE

c) Compiler error

d) None

12) Which of the following for loops will be an infinite loop?

a) for(; ;)

b) for(i=0 ; i<1; i--)

c) for(i=0; ; i++)

d) All of the above

13) What is the value of a[1] after the following code is executed?

```
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

14) What will be the output?

```
public class Test{
```

```
    public static void main(String args[]){
```

```
        int i = 1;
```

```
        do{
```

```
            i--;
```

```
        }while(i > 2);
```

```
        System.out.println(i);
```

```
    }
```

```
}
```

a) 1

b) 2

c) -1

d) 0

15) How many times 'Hello' is printed?

```
public class CppBuzz {  
  
    public static void main(String[] args){  
  
        for(int i = 0; i<5; i=5 )  
  
        {  
  
            System.out.println("Hello");  
  
        }  
    }  
}
```

a) 5

b) 4

c) 2

d) 1

1) Who invented Java language?

a) Dennis Ritchie

b) James Gosling

c) Larry Page

d) Serge Page

2) What is the original name of Java Programming language?

a) J++

b) C++

c) OAK

d) TEAK

3) What is an Interpreter?

a) An interpreter converts instructions line by line

b) An Interpreter converts source code to low-level code

c) Interpreters are slow to execute

d) All the above

4) What is the output of Compilation of Java Program?

a) .class file

- b) .cla file
- c) .jc file
- d) .javax file

5) Byte code is the result of?

- a) Compiling a Java file**
- b) Compiling a Class file
- c) Interpreting a Java File
- d) Interpreting a Class file

6) What software compiles a Java Program?

- a) JRE (Java Runtime Environment)
- b) JDK (Java Developer Kit)**
- c) JVM (Java Virtual Machine)
- d) Command Prompt

7) What is JIT in Java?

- a) Java In Timer
- b) Java In Time Thread
- c) Just In Time Compiler**
- d) Just In Time Runnable

8) Which of the following has the highest memory requirement?

- a) Heap
- b) Stack
- c) JVM**
- d) Class

9) Garbage Collection can be controlled by a program?

- a) True
- b) False**

10) What is a Java development kit (JDK) ?

- a) It is a set of libraries with a Java runtime environment.
- b) It is a just development tool.
- c) It is a development tool with a Java runtime environment.**
- d) It is a just runtime environment.

11) When is the B object, created in line 3, eligible for garbage collection?

```
void start() {  
    A a = new A();  
    B b = new B();  
    a.s(b);  
    b = null; /* Line 5 */  
    a = null; /* Line 6 */  
    System.out.println("start completed"); /* Line 7 */  
}
```

- a) after line 5
- b) after line 6
- c) after line 7
- d) There is no way to be absolutely certain.**

12) How many objects are eligible for garbage collection after execution of line ?

```
public class Test  
{  
    public static void main(String[] args)  
    {  
        m1(); // Line  
    }  
    static void m1()  
    {  
        Test t1 = new Test();  
        Test t2 = new Test();  
    }  
}
```

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

13) What is the output of the Java code snippet?

```
int a=5, b=10, c=15;  
a -= 3;  
b *= 2;  
c /= 5;  
System.out.println(a + " " + b + " " + c);
```

- a) 2 20 3**
- b) 2 20 5
- c) 2 10 5
- d) -2 20 3

14) What Output of following Java program?

```

class Test
{
    public static void main (String[] args)
    {
        int arr1[] = {1, 2, 3};
        int arr2[] = {1, 2, 3};
        if (arr1 == arr2)
            System.out.println("Same");
        else
            System.out.println("Not Same");
    }
}

```

- a) Same
- b) Not Same**
- c) not same
- d) same

15) Which of the following is FALSE about arrays in Java?

- a) java array is always an object
- b) Length of array can be changed after creation of array**
- c) Arrays in Java are always allocated on heap

1) What is the file name extension of a Java source program?

- a) .j
- b) .ja
- c) .java**
- d) .jax

2) When was first Version of Java i.e Java 1.0 was released?

- a) 1991
- b) 1994
- c) 1996**
- d) 1999

3) What are the main Distribution types of Java Software?

- a) Java SE (Java Standard Edition)
- b) Java EE (Java Enterprise Edition)
- c) Java ME (Java Micro Edition)
- d) All the above**

4) What is the Java distribution type used to build Web Apps in Java?

- a) Java SE
- b) Java EE**
- c) Java ME

d) Java Embedded

5) What is the Java command used to compile a 'Hello.java' program

- a) java hello.java
- b) **javac Hello.java**
- c) javacomp hello.java
- d) javacmd hello.java

6) What is the command used to Run a 'Hello.java' program from Command Line

- a) javac hello
- b) java hello.class
- c) **java Hello**
- d) java hello.java

7) Every statement in Java language should end with a?

- a) Dot or Period
- b) Comma
- c) **Semicolon**
- d) Colon

8) Choose a Single Line Comment in Java Language below?

- a) **//Some comments**
- b) Some comments//
- c) /*Some comments*/
- d) */Some comments/*

9) Which kind of Java programming is?

- a) Procedural
- b) Non-Procedural
- c) **Object Oriented**
- d) Event Driven

10) Java ME stands for ?

- a) Java Enterprise Edition
- b) Java Standard Edition
- c) **Java Micro Edition**
- d) None of Above

11) What will be the output of the following Java program?

```
class increment
{
```

```

public static void main(String args[])
{
    double var1 = 1 + 5;
    double var2 = var1 / 4;
    int var3 = 1 + 5;
    int var4 = var3 / 4;
    System.out.print(var2 + " " + var4);

}
}

```

- a) 1 1
- b) 0 1
- c) 1.5 1**
- d) 1.5 1.0

12) What will be the output of the following Java program?

```

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

```

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

13) Which of the following is used to declare,construct, and initlaize an array?

- a) `int arr [] = {1, 2, 3, 4};`
- b) `int [] arr = (1, 2, 3);`
- c) `int [] arr = {};`
- d) `int arr [] = {1, 2, 3};`**

14) We can calculate the length of an array using _____.

- a) `sizeof(array)`
- b) `array.len`
- c) `array.length`**
- d) `array.sizeof()`

15) Which code line could possibly "call" this method?

```
public static int SomeMethod(double[ ] array, int[ ] number)
{ . . .
}
```

- a) **int value = SomeMethod(money, grades);**
- b) SomeMethod(money, grades);
- c) double value = SomeMethod(money, grades);
- d) int value = SomeMethod(money)

1) Standalone Applications are known as

- a) Distributed applications
- b) Server side applications or Web applications
- c) **Desktop applications or Window-based applications**
- d) Android applications or Java ME applications

2) Mobile Applications are known as

- a) Distributed applications
- b) Server side applications or Web applications
- c) Desktop applications or Window-based applications
- d) **Android applications or Java ME applications**

3) Having compiled source code, It converts to another code called?

- a) **Byte code**
- b) Executable code
- c) Binary code

4) What is the Java Classloader?

- a) It dynamically loads Java source code into the JVM.
- b) It dynamically loads Java resources into the JVM.
- c) **It dynamically loads Java classes into the JVM.**

5) What is a Java Runtime Environment (JRE) ?

- a) **It is a implementation of JVM and physically exists with bundles of libraries.**
- b) It is a specification of JVM and physically exists with bundles of libraries.
- c) It is a implementation of JVM and virtually exists with bundles of libraries.
- d) It is a implementation of JRE and physically exists with bundles of libraries.

6) What allows the programmer to destroy an object x?

- a) x.finalize()
- b) x.delete()
- c) **Runtime.getRuntime().gc()**

d) Only the garbage collection system can destroy an object.

7) Which of the following is a garbage collection technique?

a) Sweep model

b) Mark and sweep model

c) Space management model

d) Cleanup model

8) The \u0021 article referred to as a

a) Unicode escape sequence

b) Octal escape

c) Hexadecimal

d) Line feed

9) _____ is used to find and fix bugs in the Java programs.

a) JVM

b) JRE

c) JDK

d) JDB

10) Which of the following is a valid declaration of a char?

a) char ch = '\u220F';

b) char ca = 'tea';

c) char cr = \u0h223;

d) char cc = '\itea';

11) What will be the output of the following Java program?

```
class bitwise_operator
{
    public static void main(String args[])
    {
        int var1 = 42;
        int var2 = ~var1;
        System.out.print(var1 + " " + var2);
    }
}
```

a) 42 42

b) 43 43

c) 42 -43

d) 42 43

12) What will be the output of the following Java program?


```

class bitwise_operator
{
    public static void main(String args[])
    {
        int a = 3;
        int b = 6;
        int c = a | b;
        int d = a & b;
        System.out.println(c + " " + d);
    }
}

```

a) 7 2

b) 7 7

c) 7 5

d) 5 2

13) What will be the output of the following program.

```

class CalculateArea
{
    public static void main(String s[])
    {
        int width = 20;
        int breadth = 30;
        int area = 0;

        area = calculateArea(width, breadth, area);
        System.out.println("Area : " + area);
    }

    public static void calculateArea(int width, int breadth, int area)
    {
        area = width * breadth;
    }
}

```

a) Area : 0

b) Area : 600

c) Compilation Error - since we can not assign the void return value from calculateArea to area.

d) Compilation Error - since we can not have the same parameter names as in the calling method.

14) What is reference to an object?

a) It is address of an object

b) It is address of where the variables and methods of object are stored

c) It is pointer having address of an object

d) It is address of only variables and not the methods of an object

15) If a reference variable is declared final then _____

a) It can never be reassigned to refer to a different object

b) It can be assigned to refer to any object anytime

c) It can never be assigned with any object

d) It can be assigned with 2 or more objects simultaneously

1) What does the expression `float a = 35 / 0` return?

a) Syntax error

b) Not a Number

c) Infinity

d) Run time exception

2) Evaluate the following Java expression, if `x=3`, `y=5`, and `z=10`:

`++z + y - y + z + x++`

a) 24

b) 23

c) 20

d) 25

3) Which of the following tool is used to generate API documentation in HTML format from doc comments in source code?

a) javap tool

b) javaw command

c) Javadoc tool

d) javah command

4) What is Literal in Java?

a) Literal is the value that is given or assigned to a variable.

- b) Literal is a data type
- c) Literal is similar to String
- d) None of the above

5) What are the types of Literals available in Java language?

- a) Integer and Float
- b) Character and String
- c) Boolean
- d) All the above**

6) What are the types of Integer Literals in Java?

- a) Decimal Literals
- b) Octal and Hexadecimal Literals
- c) Binary Literals
- d) All the above**

7) Choose correct examples of decimal literals in Java.

- a) `int a = 12345;`
- b) `int a = 12_3__5;`
- c) `long a = 987_____654_3__21L;`
- d) All the above**

8) An Octal number in Java is represented with a leading ____?

- a) O (Alphabet)
- b) 0 (ZERO)**
- c) 0x
- d) 0X

9) Choose correct ranges for Decimal, Octal and Hexadecimal numbers in Java?

- a) Decimal: 0 to 9
- b) Octal: 0 to 7
- c) Hexadecimal: 0 to 9 and A to F / a to f
- d) All the above**

10) Choose the correct example of Octal Literal in Java?

- a) `short = 0564;`
- b) `int = 076__45_2;`
- c) `int = 0_____11;`
- d) All the above**

1) How many of the following are legal declarations?

`[]double lion;`

`double[] tiger;`

`double bear[];`

a) None

b) One

c) Two

d) Three

2) How do you determine the number of elements in an array?

`int buses[] = new int[5];`

a) `buses.length`

b) `buses.length()`

c) `buses.size`

d) `buses.size()`

3) Which of the following create an empty two-dimensional array with dimensions 2×2?

a) `int[][] blue = new int[2, 2];`

b) `int[][] blue = new int[2], [2];`

c) `int[][] blue = new int[2][2];`

d) `int[][] blue = new int[2 x 2];`

4) Which is not a true statement about an array?

- a) **An array expands automatically when it is full.**
- b) An array is allowed to contain duplicate values.
- c) An array understands the concept of ordered elements.
- d) An array uses a zero index to reference the first element.

5) Java array is a collection of _____.

a) similar type of elements

- b) different type of element
- c) heterogeneous data
- d) Both A and C

6) Array data access using _____.

- a) Operator
- b) Variable

c) index

- d) Pointer

7) At time of array initialization which is necessary to specify?

a) Row

- b) Column
- c) Row and Column
- d) None of the above

8) Java Array can allocate _____.

- a) Dynamic Memory

b) Static Memory

c) Both A and B

d) None of the above

9) Which of the following 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]`

10) Which of the following is used to declare,construct, and initlaize an array?

a) `int arr [] = {1, 2, 3, 4};`

b) `int [] arr = (1, 2, 3);`

c) `int [] arr = {};`

d) `int arr [] = {1, 2, 3};`

MCQ (2 Marks)

26) Output of following Java program?

```
class Test
{
    public static void main (String[] args)
    {
        int arr1[] = {1, 2, 3};
```

```

        int arr2[] = {1, 2, 3};

        if (arr1 == arr2)

            System.out.println("Same");

        else

            System.out.println("Not same");

    }
}

```

a) Same

b) Not Same

27) What will be the output of the program?

```

class Test {

    public static void main(String args[]) {

        int arr[] = new int[2];

        System.out.println(arr[0]);

        System.out.println(arr[1]);

    }

}

```

a) 0

0

b) garbage value

garbage value

c) Compiler Error

d) Exception

28) Given,

```
ArrayList list = new ArrayList();
```

What is the initial quantity of the ArrayList list?

a) 5

b) 10

c) 0

d) 100

29) What is the output of the following code fragments?

```
int [ ] fun = new int [5];
```

```
fun[0] = 1;
```

```
fun[1] = 2;
```

```
fun[2] = 3;
```

```
fun[3] = 4;
```

```
fun[4] = 5;
```

```
int j = 3;
```

```
System.out.println(fun[ j-1]) ;
```

a) 1

b) 2

c) 3

d) 4

30) Which code line could possibly "call" this method?

```
public static int SomeMethod(double[ ] array, int[ ] number)
```

```
{ . . .
```

```
}
```


a) int value = SomeMethod(money, grades);

b) SomeMethod(money, grades);

c) double value = SomeMethod(money, grades);

d) int value = SomeMethod(money);

11) What will be the output of the following Java code?

```
class Output
{
    public static void main(String args[])
    {
        boolean a = true;
        boolean b = false;
        boolean c = a ^ b;
        System.out.println(!c);
    }
}
```

a) 0

b) 1

c) false

d) true

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

```
class Output
{
    public static void main(String args[])
    {
        int x=y=z=20;
    }
}
```

a) compile and runs fine

b) 20

c) run time error

d) compile time error

13) What will be the output of the following Java code?

```
class Output
{
```

```

    public static void main(String args[])
    {
        boolean a = true;
        boolean b = false;
        boolean c = a ^ b;
        System.out.println(!c);
    }
}

```

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

14) What will be the output of the following Java code?

```

class Output
{
    public static void main(String args[])
    {
        int x=y=z=20;
    }
}

```

a) compile and runs fine
 b) 20
 c) run time error
d) compile time error

15) Identify the type of msg variable.

```

public class TestMain {

    static String msg = "Hello World"; // msg variable name

    public static void main(String[] args) {

        System.out.println(msg);

    }

}

```

- a) Instance Variable
b) Class Variable
 c) Local Variable

