

Question # 1

 Revisit

\_\_\_\_\_ directly inherits the Object "public boolean equals(Object obj)" method and does not override it.

Choose the best option

- ☒ String
- ☐ Enum
- ☐ StringBuffer
- ☐ Runnable

Question # 2

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Which of the following for loop declarations does not meet the requirements?

Choose the best option

- ☒ for ( int i = 99; i >= 0; i / 2 )
- ☐ for ( int i = 7; i <= 77; i += 7 )
- ☐ for ( int i = 20; i >= 2; -i )
- ☐ for ( int i = 2; i <= 20; i = 2 \* i )

Question # 3

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In order to prevent a collision, which of the following is not a most effective technique?

Choose the best option

- ☐ Make the hash function appear random
- ☐ Use the chaining method
- ☐ Use uniform hashing
- ☒ Increasing hash table size

Question # 4

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What will be the output for given statement?  
`System.out.println("5" + "10" + "3" + "9" + 1);`

Choose the best option

- ☒ 510391
- ☐ 28
- ☐ 51391
- ☐ 271

### Question # 5

The number of threads in the Java programme shown below is:

```
public class ThreadExtended extends Thread
{
    public void run()
    { System.out.println("\nThread is running now\n"); }
    public static void main(String[] args)
    { ThreadExtended threadE = new ThreadExtended(); threadE.start();
    }
}
```

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Choose the best option

- ☐ 0
- ☐ 1
- ☒ 2
- ☐ 3

### Question # 6

When do Java exceptions occur in the course of a program's execution?

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Choose the best option

- ☒ Run Time
- ☐ Compilation Time
- ☐ Can Occur Any Time
- ☐ None of the above

### Question # 7

Which of the following is false about static keyword?


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Choose the best option

- ☐ Static methods can access other static members directly.
- ☒ Non static methods cannot access other static members directly.
- ☐ Static import can access directly all the static members of class.
- ☐ Static block gets called only once and a class can have multiple static blocks.

### Question # 8

Which of these is used as a default for a member of a class if no access specifier is used for it?

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Choose the best option

- ☐ Public
- ☐ Private
- ☒ Default
- ☐ Auto

**Question # 9**[Revisit](#)

Which is the correct syntax to make a single dimensional array?

**Choose the best option**

- ☒ `int a[] = new int [5];`
- ☐ `int a = new int[5];`
- ☐ Both of the above
- ☐ None of the Above

**Question # 10**[Revisit](#)

```
What is the aim of the following code?  
import java.io.File;  
import java.io.FileInputStream;  
import java.io.IOException;  
public class FileInputStreamExample {  
    public static void main(String args[]) throws IOException {  
        File file = new File("C:/Java Program/auto.jpg");  
        FileInputStream inputStream = new FileInputStream(file);  
        byte bytes[] = new byte[(int) file.length()];  
        int numofBytes = inputStream.read(bytes);  
        System.out.println("Data copied successfully...");  
        System.out.println(numofBytes);  
    }  
}
```

**Choose the best option**

- ☐ To create an image file
- ☐ To delete an image file
- ☐ To read the file through input stream
- ☐ To write the file through output stream

**Question # 11**[Revisit](#)

Calculate the output of the following code snippet.

```
interface A { }  
class C { }  
class D extends C { }  
class B extends D implements A { }  
public class Test extends Thread {  
    public static void main(String[] args) {  
        B b = new B();  
        if (b instanceof A)  
            System.out.println("b is an instance of A");  
        if (b instanceof C)  
            System.out.println("b is an instance of C");  
    }  
}
```

**Choose the best option**

- ☐ Nothing
- ☐ b is an instance of A.
- ☐ b is an instance of C.
- ☒ b is an instance of A followed by b is an instance of C.

**Question # 12**[Revisit](#)

When is it decided if a method should be overloaded?

**Choose the best option**

- ☒ At run time
- ☐ At compile time
- ☐ At coding time
- ☐ At execution time



Question # 13

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Which of the following is an example of a garbage collection method?

Choose the best option

- ☐ Sweep model
- ☒ Mark and sweep model
- ☐ Space management model
- ☐ Cleanup model

Question # 14

Revisit

`int x = 100;`  
In this example, Literal(Constant) is:

Choose the best option

- ☐ int
- ☐ x
- ☐ =
- ☒ 100

Question # 15

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Anonymous Inner Class can \_\_\_\_\_.

Choose the best option

- ☐ be extended by another class
- ☐ not be instantiated
- ☐ have a name
- ☒ access the members of its outer class

Question # 16

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What will be the output of the following code snippet?  
`int a=15;  
int b=25;  
if ((a < b) || (a = 5)>15)  
System.out.println(a);  
else  
System.out.println(b);`

Choose the best option

- ☐ Error
- ☒ 15
- ☐ 25
- ☐ No output

Question # 17

Which of the following statement is false?

Choose the best option

- ☐ Checked & Unchecked exceptions are detected or occur only in run-time.
- ☒ Javac by default handles the checked exceptions instead of forcing upon the programmer
- ☐ finally block always survives except System.exit(0)
- ☐ throws keyword is for satisfying javac instead of java

Question # 18

Enum Constant \_\_\_\_\_.

Choose the best option

- ☐ must be defined as first statement
- ☒ is an object of type enum
- ☐ is implicitly private static final
- ☐ ordinal value starts from 1

Question # 19


Choose the incorrect syntax for a lambda expression.

Choose the best option

- ☐ (param) -> System.out.println("parameterized lambda expression");
- ☐ () -> System.out.println("lambda expression");
- ☐ (String s) -> {"lambda expression of type String";}
- ☐ () -> 3.567

Question # 20

If there are multiple operators in the expression, then they will follow the rule of \_\_\_\_\_.

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Choose the best option

- ☐ Precedence
- ☐ Associativity
- ☐ Random
- ☐ POSIX

### Question # 21

Method Overloading has multiple methods with:

Choose the best option

- ☐ Same method name but different number or datatype of arguments.
- ☐ Same method name & same number of arguments
- ☐ Same method name & same data type of arguments
- ☐ All of the Above

### Question # 22

What is the output of the following code?


```
{
int rollno=01;
String name="Ronak";
public void displayInfo();
}
interface StudentMarks
{
int M3=50;
int OOP=70;
public void displayMarks();
}
class Student implements StudentInfo, StudentMarks
{
    class Student implements StudentInfo, StudentMarks
    {
        public void displayInfo()
        {
            System.out.println("Roll No:"+rollno);
            System.out.println("Name:"+name);
        }
        public void displayMarks()
        {
            System.out.println("M3 Marks:"+M3);
            System.out.println("OOP Marks:"+OOP);
        }
    }
}
public class Sample
```

Choose the best option

- ☐ Roll No: 1  
Name: Ronak  
M3 Marks: 50
- ☐ Roll No: 1  
Name: Ronak
- ☐ Roll No: 1  
Name: Ronak  
M3 Marks: 50  
OOP Marks: 70
- ☐ Error

### Question # 23

Which of the following statement is correct to check the largest number from given three numbers?

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Choose the best option

- ☐ a>(a>b?a:b)?c:(a>b?a:b);
- ☐ b>(a>b?a:b)?c:(a>b?a:b);
- ☐ c>(a>b?a:b)?c:(a>b?a:b);
- ☐ d>(a>b?a:b)?c:(a>b?a:b);



Question # 24

Which of the following is true about HashMap<K, V> API?

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Choose the best option

- ☐ It does not guarantee constant time performance.
- ☐ It allows to add null key reference (once)
- ☐ It is inherently thread safe
- ☐ It is sorted map implementation class

Question # 25

When do you expect the daemon thread to be terminated?

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Choose the best option

- ☒ Once all non-daemon threads execution is completed
- ☐ When wait() method is called
- ☐ When interrupt() method is called
- ☐ None of these

Question # 26

A place where a class's objects are kept is called as :

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Choose the best option

- ☒ Heap
- ☐ Stack
- ☐ Disk
- ☐ File

Question # 27

What type of conversion is shown in the following code?  
`long l=100; int i=(int) l;`

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Choose the best option

- ☐ Implicit Type Conversion
- ☒ Explicit Type Conversion
- ☐ Auto Type Conversion
- ☐ None of the Above

Question # 28

Aggregation is also called as:

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Choose the best option

- ☐ OR A Relation
- ☐ AND A Relation
- ☒ HAS A Relation
- ☐ None of the Above

Question # 29

Collections.emptySet() is used to get :

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Choose the best option

- ☐ Mutable HashSet
- ☒ Immutable Set
- ☐ Non-Serializable Set
- ☐ No Such method

Question # 30

What will be the output of the following program?

```
class W
{
    static int c = 0;
    public static void main(String[] args)
    {
        W w1 = c();
        W w2 = c(w1);
        W w3 = c(w2);
        W w4 = c(w3);
    }
    private W()
    {
        private W()
        {
            System.out.println("c = " + c);
        }
    }
    static W c()
    {
        return c++ <= 0 ? new W() : null;
    }
    static W c(W w)
    {
        return w.c++ == 1 ? new W() : null;
    }
}
```

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Choose the best option

- ☐ C=1, C=2
- ☐ C=1,C=2,C=3
- ☐ C=1,C=2,C=3, C=4
- ☐ Null Pointer Exception

Question # 31

Which of the following is true about Reflection?

Choose the best option

- ☐ It is not used to break abstraction
- ☒ It is used to access private method using its class object
- ☐ Used to access only public variables
- ☐ Used to access only common variables

Question # 32

What will be the output if Sample.java does not have the main () method?

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Choose the best option

- ☒ Compile time error using javac command.
- ☐ Run time error using java command.
- ☐ Class will get executed without any error.
- ☐ Class will get executed with an exception.



Question # 33

What will be the output for the following code?

```
public class TestImp {
    public static void main(String[] args) {
        System.out.println("Hello World");
    }
}
```

```
public class Test implements Runnable
{
    public static void main(String[] args) throws InterruptedException
    {
        Thread thread = new Thread(new Test());
        thread.start(); thread.start(); thread.start();
        System.out.println(thread.getState());
    }
    public void run() { System.out.println("Welcome"); }
}
```

Choose the best option

- ☐ Welcome and InterruptedException
- ☐ Welcome, Welcome and InterruptedException
- ☐ InterruptedException
- ☐ Welcome, Welcome, Welcome

Question # 34

What is false about constructor?

**Choose the best option**

- Constructors cannot be synchronized in Java
- Java does not provide default copy constructor
- Constructor can have explicit return type
- "this" and "super" can be used in a constructor

**Question # 35**

What will be the output of the following code?

```
class Except_H
{
public:
    void f1()
    {
        cout << "Except_H f1()";
    }
    void f2()
    {
        cout << "Except_H f2()";
    }
};

class Except_M
{
public:
    void f1()
    {
        cout << "Except_M f1()";
    }
    void f2()
    {
        cout << "Except_M f2()";
    }
};

class Except_N
{
public:
    void f1()
    {
        cout << "Except_N f1()";
    }
    void f2()
    {
        cout << "Except_N f2()";
    }
};

int main()
{
    Except_H h;
    Except_M m;
    Except_N n;
    h.f1();
    m.f2();
    n.f1();
    return 0;
}
```

```

class Except_H
{
    public static void main(String args[])
    {
        try
        {
            int a, b;
            b = 0;
            a = 5 / b;
            System.out.print("A");
        }
        catch(ArithmeticException e)
        {
            System.out.print("B");
        }
    }
}

```

**Choose the best option**

- ☐ A
- ☒ B
- ☐ Compilation Error
- ☐ Runtime Error

Question # 36

What is the output of the following code?

```
import java.io.*;
```


```
import java.io.*;
public class Hello
{
    public static void printsr(int n)
    {
        int i, j;
        for(i=0; i<n; i++)
        {
            for(j=0; j<=i; j++)
            {
                System.out.print("** ");
            }
            System.out.println();
        }
    }
    public static void main(String args[])
    {
        int n = 5;
        printsr(n);
    }
}
```

Choose the best option

-

Question # 37

Choose the correct set of String class methods from the following:

 Revisit

Choose the best option

- ☐ charAt, compareTo, containAll
- ☐ copyValueOf, format, valueAt
- ☐ endsWith, length, intern
- ☐ getBytes, toCharArray, lowerCase

Question # 38

"Object value = 13.401;" represents \_\_\_\_\_.

 Revisit

Choose the best option

- ☐ Generalization and Down Casting
- ☐ Widening and Up Casting
- ☐ Composition and Down Casting
- ☒ Auto Boxing and Up Casting

Question # 39

Just-In-Time Compiler increases the efficiency of \_\_\_\_\_.

 Revisit

Choose the best option

- ☒ Compiler
- ☐ Interpreter
- ☐ Garbage Collector
- ☐ Resource Allocation

Question # 40

Which of the following can be used to move thread from waiting state to runnable state?

 Revisit

Choose the best option

- ☒ using yield method
- ☐ using start method
- ☐ using awake method
- ☐ using notifyAll method