MultiThreading in Java Programming Quiz

Total points 28/50

There are 25 Questions carrying 2 marks each.

The respondent's email (**nkeshimanac@nm-aist.ac.tz**) was recorded on submission of this form.

✓ Which of these method is used to explicitly set the priority of a thread?   2/2

○ set()

○ make()

◉ setPriority()   ✓

○ makePriority()

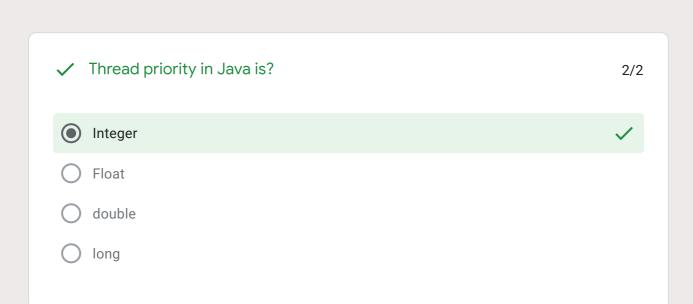What will be the output of the following Java code?

```
class newthread implements Runnable
{
 Thread t;
 newthread()
    {
      t = new Thread(this,"My Thread");
      t.start();
 }
 public void run()
    {
      System.out.println(t.getName());
 }
}
class multithreaded_programing
{
    public static void main(String args[])
    {
        new newthread();
    }
}
```

- ⦿ My Thread ✓
- ○ Thread[My Thread,5,main]
- ○ Compilation Error
- ○ Runtime Error

✗ What is synchronization in reference to a thread?   0/2

○ It's a process of handling situations when two or more threads need access to a shared resource

◉ It's a process by which many thread are able to access same shared resource simultaneously   ✗

○ It's a process by which a method is able to access many different threads simultaneously

○ It's a method that allow too many threads to access any information require

Correct answer

◉ It's a process of handling situations when two or more threads need access to a shared resource

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✓ Which of these method is used to implement Runnable interface?   2/2

○ stop()

◉ run()   ✓

○ runThread()

○ stopThread()

✓ Which of these statements is incorrect?   2/2

○ By multithreading CPU idle time is minimized, and we can take maximum use of it

○ By multitasking CPU idle time is minimized, and we can take maximum use of it

○ Two thread in Java can have the same priority

◉ A thread can exist only in two states, running and blocked

✓ **Thread priority in Java is?** 2/2

⦿ Integer ✓

◯ Float

◯ double

◯ long

✓ 2/2

What will be the output of the following Java code?

```
class newthread implements Runnable
{
 Thread t;
 newthread()
    {
     t = new Thread(this,"My Thread");
     t.start();
    }
 }
class multithreaded_programing
    {
        public static void main(String args[])
        {
            new newthread();
        }
    }
```

◯ My Thread

◯ Thread[My Thread,5,main]

⦿ Compilation Error ✓

◯ Runtime Error

✓ Which of this method is used to find out that a thread is still running or not?

○ run()

○ Alive()

◉ isAlive() ✓

○ checkRun()

What will be the output of the following Java program?

```
class newthread extends Thread
{
Thread t;
newthread()
    {
    t1 = new Thread(this,"Thread_1");
    t2 = new Thread(this,"Thread_2");
    t1.start();
    t2.start();
    }
public void run()
    {
    t2.setPriority(Thread.MAX_PRIORITY);
    System.out.print(t1.equals(t2));
    }
}
class multithreaded_programing
{
    public static void main(String args[])
    {
        new newthread();
    }
}
```

○ true

◉ false ✕

○ truetrue

○ falsefalse

Correct answer

◉ falsefalse

What will be the output of the following Java code?

```
class multithreaded_programing
{
    public static void main(String args[])
    {
        Thread t = Thread.currentThread();
        System.out.println(t);
    }
}
```

○ Thread[5,main]

○ Thread[main,5]

◉ Thread[main,0] ×

○ Thread[main,5,main]

Correct answer

◉ Thread[main,5,main]

× Which of these statement is incorrect? 0/2

◉ A thread can be formed by implementing Runnable interface only ×

○ A thread can be formed by a class that extends Thread class

○ start() method is used to begin execution of the thread

○ run() method is used to begin execution of a thread before start() method in special cases

Correct answer

◉ run() method is used to begin execution of a thread before start() method in special

cases

×

What is the priority of the thread in the following Java Program?

```
class multithreaded_programing
{
    public static void main(String args[])
    {
        Thread t = Thread.currentThread();
        System.out.println(t);
    }
}
```

○ 4

○ 5

○ 0

◉ 1   ×

Correct answer

◉ 5

What will be the output of the following Java program?

```
class newthread extends Thread
{
 Thread t;
 String name;
 newthread(String threadname)
     {
      name = threadname;
      t = new Thread(this,name);
      t.start();
     }
 public void run()
     {
     }


}
class multithreaded_programing
{
     public static void main(String args[])
     {
     newthread obj1 =    new newthread("one");
     newthread obj2 =    new newthread("two");
         try
         {
             System.out.print(obj1.t.equals(obj2.t));
         }
         catch(Exception e)
         {
         System.out.print("Main thread interrupted");
         }
     }
}
```

○ true

○ false

○ Main thread interrupted

◉ None of the mentioned ✕

Correct answer

◉ false

What is the name of the thread in the following Java Program?

```
class multithreaded_programing
{
    public static void main(String args[])
    {
        Thread t = Thread.currentThread();
        System.out.println(t);
    }
}
```

◉ main ✓

○ Thread

○ System

○ None of the mentioned

What will be the output of the following Java code?

```
class newthread implements Runnable
{
 Thread t;
 newthread()
    {
     t1 = new Thread(this,"Thread_1");
     t2 = new Thread(this,"Thread_2");
     t1.start();
     t2.start();
    }
 public void run()
    {
     t2.setPriority(Thread.MAX_PRIORITY);
     System.out.print(t1.equals(t2));
    }
}
class multithreaded_programing
{
    public static void main(String args[])
    {
        new newthread();
    }
}
```

○ true

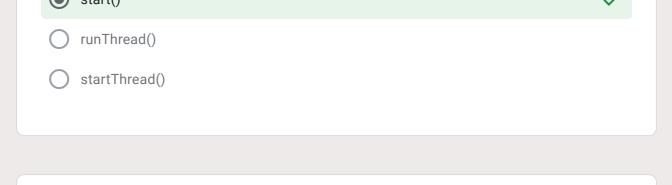◉ false   ✕

○ truetrue

○ falsefalse

Correct answer

◉ falsefalse

What will be the output of the following Java code?

```
class newthread implements Runnable
{
Thread t;
newthread()
    {
    t = new Thread(this,"New Thread");
    t.start();
    }
public void run()
    {
    t.setPriority(Thread.MAX_PRIORITY);
        System.out.println(t);
    }
}
class multithreaded_programing
{
    public static void main(String args[])
    {|
        new newthread();
    }
}
```

○ Thread[New Thread,0,main]

○ Thread[New Thread,1,main]

○ Thread[New Thread,5,main]

◉ Thread[New Thread,10,main] ✓

✓ Which of these method is used to begin the execution of a thread? 2/2

○ run()

◉ start()

○ runThread()

○ startThread()

✓   2/2

What will be the output of the following Java code?

```
class newthread implements Runnable
{
 Thread t;
 newthread()
    {
     t = new Thread(this,"My Thread");
     t.start();
    }
}
class multithreaded_programing
{
    public static void main(String args[])
    {
        new newthread();
    }
}
```

○ My Thread

○ Thread[My Thread,5,main]

◉ Compilation Error   ✓

○ Runtime Error

✓ Which of these method waits for the thread to terminate?   2/2

○ sleep()

○ isAlive()

◉ join()   ✓

○ stop()

✗ **What will happen if two thread of the same priority are called to be processed simultaneously?**　　0/2

○ Anyone will be executed first lexographically

● Both of them will be executed simultaneously　　✗

○ None of them will be executed

○ It is dependent on the operating system

Correct answer

● It is dependent on the operating system

✗ **What is the default value of priority variable MIN_PRIORITY AND MAX_PRIORITY?**　　0/2

● 0 & 256　　✗

○ 0 & 1

○ 1 & 10

○ 1 & 256

Correct answer

● 1 & 10

✗ Which of this method can be used to make the main thread to be executed last among all the threads? 0/2

○ stop()

○ sleep()

○ join()

◉ call() ✗

Correct answer

◉ sleep()

✗ Which of these are types of multitasking? 0/2

○ Process based

◉ Thread based ✗

○ Process and Thread based

○ None of the mentioned

Correct answer

◉ Process and Thread based

✓ What is multithreaded programming? 2/2

○ It's a process in which two different processes run simultaneously

◉ It's a process in which two or more parts of same process run simultaneously ✓

○ It's a process in which many different process are able to access same information

○ It's a process in which a single process can access information from many sources

✓ **What decides thread priority?**   **2/2**

○ Process

○ Process scheduler

○ Thread

● **Thread scheduler**   ✓

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