Threads Test

- 1. Show different ways to create a thread. Give one example of each. (extends and implements way)
- 2. What is output of following code. public class JavaDaemonThread1 { public static void main(String[] args) throws InterruptedException { Thread dt = new Thread(new SampleThread(), "dt"); dt.setDaemon(false); dt.start(); Thread.sleep(3000); System.out.println("Finishing program"); } } class SampleThread implements Runnable { @Override public void run() { while (true) { System.out.println("Processing thread"); } }
- 3. State true or false with one liner explanation: Thread can be created by extending runnable interface.
- 4. State true or false with one liner explanation: Thread class contains wait() method.
- 5. State true or false with one liner explanation: Object can be shared when thread is created by extending thread class. If false also show a way where using extends Thread we can share object. [3M]
- 6. State true or false with one liner explanation: Sleeping thread can be woke up by using notify() method.
- 7. State true or false with one liner explanation: Instance variables are thread safe.
- 8. wait method has to be called in run method or in main method
- 9. join method has to be called in run method or in main method
- 10. notify method has to be called in run method or in main method
- 11. 1 liner difference between sleep and wait
- 12. How to set thread priority with one example
- 13. I want to print following output using 2 threads run method:

```
10
    20
    30
    10
    20
    30
    Write the code for it [2M]
14. If i sleep a thread and call notify what will happen?
15. What are 5 states of thread life cycle. only draw diagram not detailed theory.
16. What is output of following program.
    public class TestThread_Extends {
           public static void main(String args[]) throws Exception {
           Thread t = Thread.currentThread();
           ExtendsThread1 tc1 = new ExtendsThread1();
           ExtendsThread1 tc2 = new ExtendsThread1();
           tc1.setName("tc1");
           tc2.setName("tc2");
           tc2.start();
           tc2.join();
           tc1.start();
           System.out.println("Ending Main !!");
           }
    }
    class ExtendsThread1 extends Thread {
           private int counter = 0;
           public void run() {
                    counter++;
                    Thread t = Thread.currentThread();
                    System.out.println("Thread in context : "+t.getName());
                    System.out.println("ExtendsThread : Counter : " + counter);
                    System.out.println("end");
                    }
   }
```