

University of Zambia

School of Natural Sciences

Department of Computer Science

CSC2000 Test 2

Duration: 1 hour

Answer all questions.

Section A [5 marks each question]

1. Which class or interface defines the `wait()`, `notify()` and `notifyAll()` methods?
2. What method must be defined by a class implementing the `java.lang.Runnable` interface?
3. Which method is used to make a main thread to wait for all child threads?
4. Which method is used to check if a thread is running?
5. What method call will directly stop the execution of a Thread?
6. Write code for two types of valid constructors for Thread class.
7. Write the code that is missing.

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

8. What keyword is used to achieve concurrency in Java threads?
9. What method call is used to identify threads?
10. Write a code block to create and start a thread using the class below.

```
public class MyRunnable implements Runnable  
{  
    public void run()  
    {  
        // some code here  
    }  
}
```