Central Peel Secondary School
Grade 11 University Preparation – Introduction to Computer Science – Final Exam Outline
Mr. N. Nolfi

Victim: _____

KU	APP	TIPS	COM	TOTAL
/20	/22	/18	/15	/75

Time: 2 hours

1. **Matching:** Match each term in the left column with the *best definition* or *description* in the right column. There are 20 terms and 26 definitions. (Many of the incorrect definitions are very silly. Their main purpose is to amuse you.) **(10 KU)**

   Terms you Should Know

   execute, variable, local variable, global variable, object, component, method, property, procedure, procedure name, event, event handling procedure, general procedure, **Sub**, algorithm, loop, counted loop ("For"), conditional loop ("While"), variable declaration, call, argument, parameter, code, if statement, etc

2. **Multiple Choice:** There are *nine* multiple choice questions based on the *main ideas* that we have covered in this course. (Many of the incorrect answers are *extremely* silly. Their main purpose is to amuse you.) **(10 KU)**

3. **Identify Program Elements:** Both App Inventor blocks and VB code are given. You need to identify program elements such as procedure names, variable names, arguments, events, etc **(7 APP)**

4. **Programming:** Shown below is a drawing that consists entirely of line segments and circles on a form scaled to 300 pixels ×300 pixels. Your job is to complete the following steps.

   (a) Before you even consider writing any code, you should sketch a portion of this diagram. Use the provided grid to sketch enough lines and circles to allow you to see patterns. **(5 APP)**

   (b) Now complete the following tables of values. **(3 TIPS)**

   (c) Now write VB code that generates the drawing shown above. Observe that some of the code has already been written for you; your job is to complete the **Sub**. *Note that you must use loops wherever possible. In addition, it is critical that you indent the code properly!* (It's also a good idea to *read* the comments!) **(3 TIPS)**

   (d) Now write VB code that generates the drawing shown on page 5. **(10 APP, 5 COM)**

5. **Programming:** You will create one program that requires a loop. The problem in this question has a very short solution but requires some thinking. Several hints are given to guide your thinking. **(10 TIPS, 5 COM)**