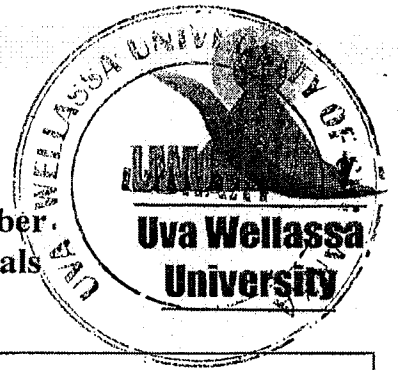


Uva Wellassa University of Sri Lanka
Faculty of Science & Technology
2nd Semester Examination-2012 September/October
CST 201-1 Computer Programming Fundamentals



Index No: _____

Section III, Essay questions. This section carries 40 marks.

- (1)
 - a) What are the seven steps that you have to follow when developing a computer programme?
 - b) There are different data types available to define integer variables in C programming language such as short, int, long ...etc. What is the use of having several data types to represent the same kind of data?
 - c) What are the advantages of using functions in C programming?
 - d) Briefly explain the difference between the two types of selection statements as "if-else" and "switch" in C programming?
 - e) Array can be seen as a set of elements with same data type. Briefly explain a situation where the use of array elements is more suitable than use of separate variables.

- (2)
 - a) What is the difference between integer type variable and integer type pointer? What are the values we can store in these two?
 - b) What are the advantages of using pointers in a C programming?
 - c) What is the need of language translators when programming with high level languages?
 - d) What are the common operations associated with file handling in C language?
 - e) Briefly explain the difference between syntax errors and semantic errors that may occur when writing computer programs. Provide examples for each of them.