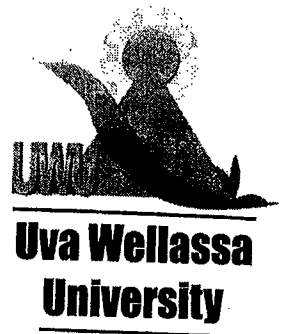
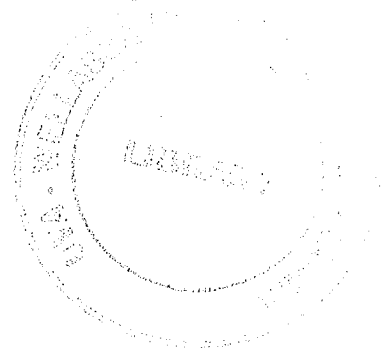


Uva Wellassa University of Sri Lanka
Faculty of Science & Technology
Computer Science & Technology Degree Program
2nd Semester Examination Aug/September-2011
CST 121-2 Structured Programming Fundamentals



Index No:

Time: Two (02) hours This paper consist of three sections. Answer all Questions



Essay Questions. *This section carries 40 marks (Each question carries 20 marks)*

- (1) a. Briefly explain the difference between the data and the information. (4 marks)
- b. Computer program can be treated in 3 basic steps as input, process and output. What would the input, process and output be for a program to calculate the miles per gallon for a specific vehicle? (4 marks)
- c. Suppose an integer variable is declared and initialize as follow. (4 marks)
`int x = 100;`
Briefly explain the process that would occur when you execute the above statement in a computer program.
- d. Briefly explain the use of order of precedence of operators in a programming language. (4 marks)
- e. What are the advantages of having two types of selection statements as “if-else” and “switch” in C programming? (4 marks)
- (2) a. Describe the term “arrays” in your own words. (4 marks)
- b. Why it is necessary to define the whole function or place the prototype of the function before the function is first used. (4 marks)
- c. There are two methods of passing a value to a function as input parameter, “pass by value” and “pass by reference”. What is the main difference between these two methods? Provide examples for each of these methods. (4 marks)
- d. Briefly explain the use of structures in C programming. (4 marks)
- e. What is the difference between writing data to a text file and appending data to a text file? (4 marks)

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