



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY

SEIT 103: INTRODUCTION TO COMPUTER PROGRAMMING

DATE: WEDNESDAY 1ST NOVEMBER 2010 TIME: 2.00 P.M – 4.00 P.M

INSTRUCTIONS:

- Answer question number ONE and any other TWO questions

- Q.1) a) Define the following terms:
- i) Computer program (1 mark)
 - ii) Programming (1 mark)
 - iii) Algorithm (1 mark)
 - iv) Pseudocode (1 mark)
 - v) Computer (1 mark)
- b) Describe the qualities of a good computer program (5 marks)
- c) Describe the computer program development life cycle (5 marks)
- d) Distinguish between high-level programming language and machine-Level programming language (6 marks)
- f) Briefly explain Data structure (5 marks)
- Q.2) a) List any six areas in which data structures are applied extensively (3 marks)
- b) Basic data structures control memory. They are sub-divided

into four basic classifications such as: storage structures, state structures, linked structures and association structures.

Explain the functions of each classification giving appropriate Examples. (17 marks)

- Q.3) a) Draw up a flowchart for entering a student marks, process and provide Output. If the marks are greater than 40 and repeat if the total marks in less than 40. (5 marks)
- b) Write a computer program in C language based on the flowchart given in your answer to question 3(a) above. (15 marks)
- Q.4) a) Briefly explain the following:
- i) Any four common data types as in C programming language. (2 marks)
- ii) Basic format of a Pascal programming language (2 marks)
- b) Briefly explain how you would compile and run a Pascal Program (16 marks)
- Q.5) a) Differentiate between Server Scripting and Client Scripting. (4 marks)
- b) Describe the features of one client and one server Scripting language familiar to you (6 marks)
- c) Using VBscript, create a Code to produce the out put given below: (10 marks)
- The number is 0
The number is 1
The number is 2
The number is 3
The number is 4
The number is 5

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