



UNIVERSITY OF COLOMBO, SRI LANKA

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY
Academic Year 2009/2010 – 2nd Year Examination – Semester 4

IT4103: Programming II
PART 2 - Structured Question Paper

14th August, 2010
(ONE HOUR)

To be completed by the candidate

BIT Examination Index No:

Important Instructions:

- The duration of the paper is **1 (one) hour**.
- The medium of instruction and questions is English.
- This paper has **2 questions** and **6 pages**.
- **Answer all 2 questions. Questions do not carry equal marks.**
- **Write your answers** in English using the space provided **in this question paper**.
- Do not tear off any part of this answer book.
- Under no circumstances may this book, used or unused, be removed from the Examination Hall by a candidate.
- Note that questions appear on both sides of the paper.
If a page is not printed, please inform the supervisor immediately.

Questions Answered

Indicate by a cross (x), (e.g.) the numbers of the questions answered.

To be completed by the candidate by marking a cross (x).	Question Numbers		
	1	2	
To be completed by the examiners:			

ii)

iii)

2)

a) Consider the following stream of data which is stored in the array

5 1 9 8 7 0 2 3 4 6

Using an illustration, explain the process of creating a balanced binary search tree with the use of an ordered array. (10 Marks)

ANSWER IN THIS BOX

A large rectangular box with a solid border, containing horizontal dashed lines for writing the answer.

b) Write an application and an applet to display the following name.

Vimukthi Jayaweera

Discuss 3 differences of applications and applets.

(30 Marks)

ANSWER IN THIS BOX

A large rectangular box with a solid border and horizontal dashed lines inside, intended for writing the answer.

