

香港中文大學
The Chinese University of Hong Kong

版權所有 不得翻印
Copyright Reserved

Course Examinations 2nd Term, 2010-11

Course Code & Title : CSCI2100B Data Structures

Time allowed : 2 hours 0 minutes

Student I.D. No. : Seat No. :

Answer **ALL** questions. Full mark is **100**.

Please answer every question in a new page of the answer book provided.

Express your answer in English, mathematical expressions, or with diagrams; but **NOT** C code snippets unless you are asked to do so.

An ASCII table is provided at the last page of this question paper.

Page	Question	Topic	Marks
2	1	Big- O notation and algorithm analysis	10
3	2	Sorting algorithms	10
4	3	Linked List / Stack / Queue	10
5	4	Hashing & Hash Tables	10
6	5	Binary Search Tree (BST)	10
7	6	AVL Tree	10
7	7	Binary Heap	10
8	8	Graph: Representation & Traversal	10
9	9	Graph: Minimum Spanning Tree & Shortest Path	10
10	10	Challenges	10
Total			100