編號:

135

國立成功大學九十七學年度碩士班招生考試試題

共 / 頁,第

系所: 工程科學系在職專班甲組

科目:計算機概論(專班)

本試題是否可以使用計算機: □可使用 , □不可使用

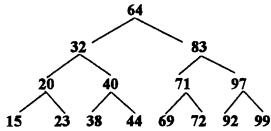
(請命題老師勾選)

考試日期:0301, 節次:3

1. Terminologies Description (Please describe in detail):

(20%)

- (a.) Asymmetric Digital Subscriber Line-ADSL.
- (b.) Domain Name Server.
- (c.) Proxy Server.
- (d.) Access Point.
- (e.) Relational Databases Management System.
- 2. Please describe the difference between 1'complement and 2's complement schemes of binary numbers? Please use a 4-digit binary number to demo the difference. (20%)
- 3. A binary search tree looks like the follow: (Total 25%: a:5%, b:10%, c:10%)



- Please give the results of inorder, preorder, and postorder traversals of the binary search tree. (Write out the sequence of numbers visited).
- Design a data structure and a function insertnode that can be used to establish the tree.
- c. DEsign the recursive version of the inorder, preorder, and postorder traversal functions for the functions in a.
- 4. How Java programming language achieves portability, i.e. Write Once, Run Anywhere (WORA)? What is the price paid for it? (20%)
- 5. What kind of technology is used to fill the speed gap between modern CPU and Memory modules? (15%)