共 / 頁,第/頁

## 國立成功大學九十六學年度碩士班招生考試試題

編號:

173 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)

- 1. What are the functions of an operating system of a computer system? (10%)
- 2. What is RAID? (5%) How is mirroring different from striping? (5%)
- 3. How is a complier different from an interpreter? (5%) What is the advantage, and disadvantage of an interpreter? (5%)
- 4. How is an algorithm different from a program? Please give examples. (5%)
- 5. What is a cybercrime? (5%) What is a spyware? (5%)
- 6. What is a firewall? (5%) What is the function of an NAT? (5%)
- 7. What is the IEEE 802.11? (10%)
- 8. What are scalability and interoperability? (5%)
- 9. Implement a logic circuit for one bit binary full adder using AND, OR, and NOT logic gates. (10%)
- 10 Design an algorithm to create a search binary tree with N input integers. Please analyze the time and the space complexities of your algorithm. (20%)