編號: 126 **周立成功大學九十九學年度碩士班招生考試試題** 共 / 頁·第 / 頁 系所紹別 丁程科學系亦聯盟研印紹

考試科目 計算機解論(真研)

###### : 0306 - ###: 3

※ 考生請注意:本試題 〇 〇 一不可 使用計算機

- 1 Why the loading of an operating system from hard disk into main memory of a computer is called "Boot"? What major steps and major components in a computer system are involved in this "boot" process? (20%)
- The evolution (進化) of operating systems is majorly in three stages, i.e. BIOS, DOS, and Windows. Please describe the main breakthroughs (突破) and progresses of functionalities (功能) of operating systems in each stage. (20%)
- Please give a detail description on the relationship among Web Browsers, Web Pages, Web Servers, Proxy Servers, and the HTML Protocol, drawing a graph if possible. (20%)
- 4. With **64bit** CPUs becoming available, **64bit** applications and operating systems are also appearing. (20%)
  - (a) Please describe what major functions of a CPU that differentiates **64bit** CPUs from **32bit** CPUs.
  - (b) How does a 32bit CPU perform a 64bit operation?
- Please draw a graph to show how NICs, HUBs, Switches, Gateways, and Routers are connected to form a complete network, and please give a detail description on each of these devices. (20%)