編號:

122

國立成功大學一○一學年度碩士班招生考試試題

共/頁,第/頁

系所組別: 工程科學系在職專班甲組

考試科目: 計算機概論(專班)

考試日期: 0225, 節次: 3

- 1. Terminologies Description (Please describe them in detail): (20%)
  - (a.) ISO OSI reference model.
  - (b.) FDM (frequency-division multiplexing).
  - (c.) DHCP protocol.
  - (d.) Multiprocessing and Multitasking.
  - (e.) I/O polling and Interrupt handling.
- 2. The transmission media for computer networks can be either coaxial copper cable or fiber-optic cable. Please describe the difference between them with respect to *bandwidth*, *inductance*, *speed*, and *attenuation*. (20%)
- 3. Please draw a diagram to illustrate the relations among Web server, Web browser, HTTP protocol, HTTPS protocol, Proxy server, and HTML. (20%)
- 4. The cache technology is used in modern CPUs to speed up their execution speed. Please describe its operation and the situations that will affect its performance. (20%)
- 5. Write a program that inputs a series of nonnegative integers terminated by -1 and, in the meantime, find their largest number for printing out. For example, inputs 35, 78, 56, 47, 26, 59, 57, ...,-1 will print out "The largest number is 78". Please use **for loop**, **while loop**, and **do while loop** to implement the program respectively and use only one loop in the program. (20%)