國立成功大學 104 學年度碩士班招生考試試題

系所組別:生物醫學工程學系乙組

考試科目:計算機概論

考試日期:0211,節次:2

編號: 167

第1頁,共1頁 ※ 考生請注意:本試題不可使用計算機。 請於答案卷(卡)作答,於本試題紙上作答者,不予計分。 1. (10%) What is a Multi-core processor (多核心處理器)? And what is the difference between the Multi-core processor and the Multi-processor? (10%) Does a four-core process faster than a two-core process? And why? 2. (20%) Briefly describe the following terms: (a) ARM architecture for CPU (b) VPN (Virtual private network) (c) Stream media (d) Inheritance of OOP (Object-oriented programming) 3. (8%) Describe the major functions of an OS (operation system) in the computational system. (12%) And illustrate four different OS currently used in the commercial market. 4. (20%) Use bubble sort (also referred as sinking sort) to write a program with any language you know (or pseudocode) to sort a list of numbers. Include the necessary comments in the program to explain your procedure. 5. (20%) What sequence of numbers would be printed by the following recursive procedure if we start it with N=3? procedure MysterPrint (N) if (N > 0) then { print (N); MysterPrint (N-2); } print (N+1); return;