編號: 168

國立成功大學 103 學年度碩士班招生考試試題

共] 頁,第] 頁

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:0222,節次:2

※ 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. (28%) Wireless communication is becoming more and more important in information exchange. Brief describe the following terms in wireless communication: (a) Bluetooth (b) RFID (c) Wi-Fi (d) 4G LTE
- 2. (12%) Describe the major differences between: (a) CPU register vs. RAM (b) Hard disk drive vs. Solid-state drive
- 3. (30%) Write a program (function) which **randomly** generates 3 **different** integer numbers between 1 to 30. You should call the <u>rand()</u> function in your program. This <u>rand()</u> function randomly generate a floating random number between 0 to 1. (You can use C, Java, Basic or Pseudocode language. But note the language you are using in the comment of your program.)
- 4. (15%) Write down the procedures in transferring **-72** (base of 10) to its 8-bit two's-complement representation.
- 5. (15%) The following Boolean operation is equivalent to _____ gate.

