**2020 崑山科技大學 資工系 資訊工程導論**

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**\_\_\_\_\_\_\_\_\_\_系\_\_\_\_\_\_\_\_\_\_年級\_\_\_\_\_\_\_\_\_\_班**

1.重要名詞解釋:

(1) von Neumann architecture

(2)虛擬記憶體

(3)POST

(4)machine cycle(*instruction cycle*)

2.簡答題:

(1)簡述作業系統的功能

(2)簡述Memory hierarchy

3.完成底下數字系統的轉換:

(10011001.101)2 = (\_\_\_\_\_\_\_\_\_\_\_\_\_\_)8 =(\_\_\_\_\_\_\_\_\_\_\_\_\_\_)16 =(\_\_\_\_\_\_\_\_\_\_\_\_\_\_)10

4.完成底下數字系統的轉換:

(\_153.625)10 = (\_\_\_\_\_\_\_\_\_\_\_\_\_\_)2

5.負數表達法: 當電腦以 8 bits 來表達負數時.

-39的負數表達法分別為何?

(A)signed-magnitude (B)1’s complement (C) 2’s complement

6.負數表達法:

當電腦以 8 bits 來表達負數時.

底下三種負數表達法下　10010010 代表的數字為何?

(A)signed-magnitude (B)1’s complement (C) 2’s complement