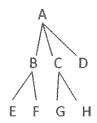
國立東華大學招生考試試題第二

招	生 學	年	度	101	招	À.	類	別	碩士在職專班
糸	所	班	别	資訊工程學系碩士在職專班、電機工程學系碩士在職專班					
科	***************************************		B	計算機概論		Provide Provide Control			
注	意	*	項	本考科可使用掌上型計算機	agunatum da Wajahan gare ya dayo	, , , , , , , , , , , , , , , , , , ,	agostoriumana. Incombinentecimie	ann ann am de d'Alban de de de la company	

- 1. (15%) Describe the architecture of a modern computer.
- 2. (20%) Consider an array List[N], where there are N numbers in the array. Write a program or flow chart to compute the maximum, sum and average of these numbers in the array.
- 3. (10%) Define bit, byte, database, proxy and cache memory.
- 4. (10%) Consider the tree as follows, where A is the root.(5%) (a). Indicate the path traversed by depth-first search for G in the tree.(5%) (b). Indicate the path traversed by breadth-first search for G in the tree.



- 5. (10%) Explain "class" and "object" and give an example for a class and its objects.
- 6. (10%) Compare to array, what are the advantages and disadvantages of linked list?
- 7. (10%) Compute the value of the prefix expression: -a/*b+cde, where a=10, b=4, c=2, d=1 and e=3.
- 8. (15%) List five factors that affect a computer's processing speed.