85 學年度 國立成功大學 企業管理研究所 計算機構 論 其 五 頁 爾士班招生考試 企業管理研究所 計算機構 論 / 頁

- 10分 (一) 什麼是DOS?
- 10分 (二) 什麼是主要記憶體(Main Memory) 與次要記憶體(Secondary Memory)? 說明此二者之異同?電腦五大部門中的儲存部門與此兩種記憶體有無關係?理 由何在?
- 10分 (三)分別說明檔案處理中的「讀取(Read)」與「寫入(Write)」檔案的動作。 這裡指的「讀取」、「寫入」檔案的動作與一般所說的「儲存(Save)」、「載入(Load)」檔案的動作有何不同?還是相同?
- 10分 (四) 我們都知道,電腦的內部是一些電子線路的組合・但是,電腦跟入腦一樣,也會做計算。依您所知道的基本電腦概念 (B.C.C.) , 説明電腦爲什麼會做計算的理由? (Hint:人類的加、減、乗、除計算,電腦怎麼會做?)
- 10分(五)什麼是結構化的程式設計?是否有某些電腦語言不適合來設計一個『結構化的程式』?理由何在?
- 12分(六) 寫眉下列BASIC Statements的結果:
 - 1. a!=123456789123456789 print a!
 - 2. a# 123456789123456789 print*a#
 - 3. a=123456789123456789 print a
 - 1. a%=55555.5 · print a%
- 10分(七) The ACE Manufacturing Company occasionally hires laborers paying them \$5.00 an hour, plus \$7.50 for all hours over eight.

Write a BASIC program to read in the worker's names and hours worked from Keyboard, and then calculate and print out a list of the amounts due them. Assume that the number of workers that ACE hires may vary day by day. The output report format should look like as follows:

NAME	HOURS WORKED	AUOUum a
P. CHEN		AMOUNT DUE
Y. TSAI K. LIN	8.0	40.00
	8.5	
	10.0	43.75
		55.00

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28万 (八) Develop a computerized game that generates a random number greater than 10, but less than 90. Store the number in a variable called GUESSIT, then have the user attempt to guess the number. Note that the statement RANDOMIZE(N) can be used to generate a random number between 0 and 1, where N is any value between -32768 and 32767. A sample run is shown below.

I'm thinking of a number between 10 and 90 · Try to guess it!

Your guess? 40

Your guess? 9

Too high · Guess again!

The number is > than 10 and < 90 •

Your guess? 15 Too low• Guess again!

Your guess? 23 Correct! You guessed the number in 4 trials! Play again(Y/N)? N Ok

- (a) Explain your algorithm.
- (b) Draw a flow chart.
- (c) Write a BASIC program .