

Time : 2 Hrs

Feb,1,1996

MATHEMATICS 206

**FINAL EXAM
(FALL 1995-96)**



I. WORDPROCESSOR

(20%)

- a- Define the following terms wordprocessor, write, ruler.
- b- How many options are there in the menu bar of the write software ? and cite them.
- c- Write down the process (& commands) one should use to apply the following modifications to a text:
- . Change the style of a paragraph.
 - . Move one paragraph from one place to another.
 - . Search for a word and replace it by another.
 - . Center the title of the text.
 - . Select a paragraph of the text and count how many words is it composed of.
 - . Set the left margin to five and right margin to 65.
 - . Save the document under the name "abc".
 - . Open a new document.

II. DATABASE

(10%)

- a-Suppose you are working in a computer company as a consultant and you are asked to lead a project in the computerization of a particular firm . What are the different stages the project should pass through and describe in few lines each stage.



III

BASIC:

(10%) 1) a. What is the output of the following programs? (Explain)

```
10 X$ = "L"
20 T = 1
30 FOR I = 1 TO 26
40 READ Y$
50 T = T + i
60 IF Y$ = X$ THEN GOTO 80
70 NEXT I
80 N = i
90 RESTORE
100 FOR I = 1 TO N
110 PRINT TAB(T);
120 READ Y$
130 FOR J = 1 TO I
140 PRINT Y$;
150 NEXT J
160 PRINT
170 T = T - 1
180 NEXT I
190 DATA F, H, C, L, A, M, N, P, O
```

b. Assume you have the following list in an array 44,55,12,42,94,18

(10%)

```
10 L = 2
20 R = 6
30 K = 6
40 FOR J = R TO L STEP -1
50 IF A(J-1) > A(J) THEN SWP A(J-1), A(J):K = J
60 NEXT J
70 FOR M = 1 TO 6
80 PRINT A(M);
90 NEXT M
100 PRINT
110 L = K + 1
120 FOR J = L TO R
130 IF A(J-1) > A(J) THEN SWAP A(J-1), A(J):K = J
140 NEXT J
150 R = K - 1
160 PRINT
170 IF L <= R THEN GOTO 120
180 FOR J = 1 TO 6
190 PRINT A(J)
200 NEXT J
```

(20%) 2) Four hourly workers are working for a certain company. The workers are numbered from 1 to 4. Write a program that enters for each worker the number of hours worked on each day of a given week (Monday to Sunday) and outputs the following:

- i) the total number of hours worked by each worker throughout the week.
- ii) the total number of hours worked by all workers on each day of the week.
- iii) the number of the worker with the maximum number of hours.
- iv) the total hours worked by all the workers throughout the week.

(10%) 3) Write a program to fill an array with numbers and print out all numbers between the highest number and the lowest one.

EX:if your input is 2,5,7,6,19,14,2,1,7

your output should be 19,14,2,1

(20%) 4.) Write a program to fill an N X N array with numbers as follows:(without using any read or input statement)

0	1	0	1	0	1
1	0	1	0	1	0
0	1	0	1	0	1
1	0	1	0	1	0
0	1	0	1	0	1
1	0	1	0	1	0