## EASTERN UNIVERSITY, SRI LANKA SECOND EXAMINATION IN SCIENCE (1996/97) JUNE/AUGUST 2004 EXTERNAL DEGREE EXMT 206 PASCAL PROGRAMMING

	Time: 02 hours
ta type to include the following fields to represent a \$ (10)	
<ul> <li>a) Briefly describe the overall structures of a Pascal p</li> <li>b) Briefly describe the structured data types in Pascal</li> <li>c) What is the difference between "Write" and "Write"</li> <li>d) Determine which of the following are valid identified they are invalid?</li> </ul>	orogram. (20) I. (20) iteln" statement? (10) iers and for invalid identifiers, why (50)
i. Address ii. 98mark iii. mod iv. 34_er_45 v. tr 45	vi. my file vii. reset
22)  Etala mobre de la labraga de labraga de la labraga de	
<ol> <li>Briefly describe the control structures of a Pascal pre each of them.</li> </ol>	ogram and give suitable example of
ii. A company executive is given a rate of 25 Rs management has decided to pay a higher rate of 45 employees whose car engines are larger than 150 program to print the traveling expenses of an exe engine size.	5 Rs per mile for sales department 00 cc in capacity. Write a Pasca
23)	
a) Briefly describe the repetition statement in Pascal	program. (25) ms) for the following problems.

- i. A program is required to input from a keyboard, a series of integer values ending with a dummy value of zero and to output to the screen, the number input together with its second, third and fourth powers. (40)
- ii. Write a program to calculate the average height of boys and the average height of girls in a class. The program should read the sex code (1 for boys, 2 for girls) and the height of each boy and girl. The numbers of boys/girls in the class are not known. (60)

Q5)

a) Define a "RECORD" data type to include the following fields to represent a student details in a Pascal program. (30)

ID NUMBER
NAME
ADDRESS
FACULTY
REGISTRATION DATE

- b) Write a Pascal program to read ten student records. (35)
- c) Write Pascal statement to read a student id number and to output his/her details. (35)

Q6)

- a) What are the differences between "Sequential file" and "Random file"? (15)
- b) Briefly describe all the TEXT file commands in Pascal. (20)
- c) A text file name "student.txt" is used to keep the marks for 20 students in two subjects. Each line of this file contains three values; index numbers and the corresponding two marks. Write a procedure which uses the above text file "student.txt" to display index number/numbers of students who got the highest average marks.

  (65)