



University of Central Punjab
Final paper

Course: Operating Systems (Lab) (E11)

Marks:40

Instructions

- It is a closed notes and book exam
- All questions are mandatory

Question # 1: (Marks 20)

You have to implement Synchronization mechanism for the following scenario and implement it in C language:

There are two sections E10 and E11, they have to appear for viva in room 304.

- At one time there is only one Section who can enter into the same room 304.
- If Section's E10, one student is in the critical section then two more students can enter into the same room.
- No more than 3 students be in room 304 of either section.

Question # 2: (Marks 20)

Write a C program in which you will take number of series as input from the command line and you will pass series to each thread. One thread will print even numbers from the series. One thread will print odd numbers from the series.

Output: ./task1.out 1 2 3 4 5 6 7 8 9 10

Thread 1 Loading...

Even numbers: 2,4,6, 8,10

Thread 2 Loading....

Odd numbers: 1,3,5,7,9