

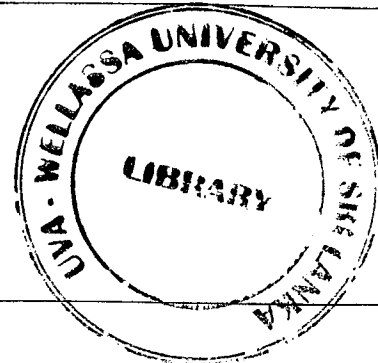
Instructions to candidates

Duration: **Two (02) hours**

Number of questions: Four (04)

Mark allocation: **100**

Answer all the questions



- 1.
- a. Define the following
- i. Paging
 - ii. Thrashing
 - iii. Threads
 - iv. Context switching
 - v. Rotational latency
- (10 mark)

- b. Consider the following set of processes with the length of the CPU burst time given in milliseconds

Process	Burst Time	Priority
P1	10	3
P2	1	1
P3	2	3
P4	1	4
P5	5	2

The processes are assumed to have arrived in the order P1,P2,P3,P4 and P5 at time 0.

- i. Draw four Gantt charts illustrating the execution of these processes using FCFS, SJF, RR (quantum=1) scheduling and a non pre-emptive priority (a smaller priority number implies a higher priority). (8 mark)
- ii. What is the average turnaround time of each scheduling algorithms ? (4 mark)
- iii. What is the average waiting time of each scheduling algorithms ? (4 mark)