

The LNM Institute of Information Technology

Computer Science & Engineering

CSE 222: Operating Systems

Exam Type: Mid Term

PART B

Time: 90 Minutes

Date: 22-Feb-2018

 16 VCS126
 Max. Marks. : 20

Instruction:

- All questions are compulsory.

- Q1: Briefly explain how Round Robin (RR) scheduling Algorithm works? Discuss with the help of examples how time quantum value (large and small) affect the performance of RR scheduling. 6 Marks
- Q2: Discuss the process state diagram for the non-preemptive and preemptive scheduling algorithm. 4 Marks
- Q3: Consider the following set of processes:

Process	Burst time	Arrival time	Quantum = 1 Time.
P1	20	0	
P2	25	15	
P3	10	30	
P4	15	45	

Perform the comparison of Shortest remaining time next algorithm with round robin scheduling algorithm on the basis of turnaround time, response time and waiting time. 6 Marks

- Q4: Compare the One to One and Many to One multithreading models. 4 Marks