GURUDAS COLLEGE
INTERNAL EXAMINATION,2020
COMPUTER SCIENCE (GENERAL)
SEMESTER IV
PAPER CC4
THEORY

F.M : 25

GROUP A

Answer any 5(five) questions

1. What is shell? Differentiate between monolithic kernel and microkernel. 2+3
2. Differentiate between multiprocessor and real time processor? 5
3. State and define deadlock characteristics. 5
4. Draw the process state diagram and explain its each state . 5
5. Write down the differences between 2.5X2
   i. Preemptive and non preemptive scheduling
   ii. Process and Thread
   iii. Multi user operating system and single user operating system
6. What is resource allocation graph ? why we use this graph in deadlock avoidance? 2+3
7. Consider a set of four process : 5

Process	Burst time	Arrival time
P1	10	0
P2	5	1
P3	4	2
P4	7	6

Draw the Gt chart and find out average turn around time and waiting time. Use round robin scheduling algorithm with time slice =2ns

GROUP B
INTERNAL ASSESSMENT
F.M:10

1. What is dispatcher ? write down the uses of medium term scheduler in process management . 2+3
2. Explain the phenomenon of mutual exclusion –how can an effective solution be achieved? 5

Send the Scanned answer scripts to the following mail id:
csexam.cmsg3@gmail.com