ENGINEERING COLLEGE AJMER

B.Tech V Sem Cyber and IT, Subject: Operating Systems, Mid Term-I (2024-25) Duration: 1 Hrs, MM: 12

Q:1 Suppose the following jobs arrive for processing at the time indicated, each job will run the listed amount of time.

lobs	Arrival Time	Burst Time(Sec)
1	0.0	8
2	0.4	4
2	1.0	1

Draw Gantt charts and compute AWT and ATAT of these jobs using following algorithms:-

a.) FCFS

b.) Non Preemptive SJF

(q=2)

O:2 Explain process states and PCB.

Q:3 Consider the snapshot of a system.

a system.				
Process	Allocation	Max .	Available	wear of
PO	010	753,	332	743
P1	200	322	-	11.2
P2	302	902,		00
P3	211	222		101
P4	002	433		4 :
	12.1.1.0	2 2 0	0 0 800	フ・ー

Answer the following question using the banker's Algorithm

- a. What is the content of matrix need?
- b. Is the system in safe state? Yes
- c. If a request for process P1 arrives for (1, 0, 2) can the request be granted immediately?