Mid Semester Examination SYNOPTIC

Max. Marks: 20

Class: FYMCA

Semester: II

Course Code: MCA21

Date: 02/03/2020

Subject: Operating System

Q1) a) Need=01 mark, listing=01 mark, Explanation=03 marks

Q2 a) Gantt chart

P0		P1	P2	P3	P1	P0	
0	1	3	5	9	13	22	

Average Turnaround time= 10 Average waiting time=4.5

b) RMS gantt chart=02 marks, EDF Gantt chart=02 marks conclusion: Not schedulable using RMS and Schedulable using EDF(01 mark)

Q3 a) Clearly Defining Producer Consumer problem=01 mark Semaphore declaration=01 mark Codes with proper explanation=03 marks

OR

Explanation of how ME holds=02 marks
Explanation of how Deadlock=02 marks
ME and Deadlock both are achieved by the code (01 marks)

