

## Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058, India (Autonomous College Affiliated to University of Mumbai)

## Mid Semester Examination

March 2019

Duration: 1Hr

Branch:MCA

Semester:II

Max. Marks: 20 Class:FYMCA

Course Code:MCA21

Name of the Course: Operating System Instruction:

(1) All questions are compulsary

(2) Draw neat diagrams

(3) Assume suitable data if necessary

Q No.				1 -		
0.1					Max.	CO
Q.1	Illustrate types of system calls				Marks	
					5	CO
		OR				
001	Classify different OS based o	n their fund	ctions			00
Q.2 (a)	Demonstrate process state di	agram		0	-	CO
	Cosider the following set of pr	ocesses D	aw Gantt chart Fin	0		CO2
	Cosider the following set of processes. Draw Gantt chart, Find average waiting time, average turnaround time for Round Robin scheduling algorithm (Time Quentum 202)				5	CO2
	ing algorithm(Time Quantum=03)					
		rival Time	Burst Time			
	1	0	5			
	2	1	3		1	
	3	3	6		- 1	
	4	5	1			
	5	6	4			
	Consider the following set of parage waiting time, average turn queue scheduling algorithm   Process N $ \begin{array}{c} 1\\ 2\\ 3 \end{array} $	daround tin	ie for Multilevel fee	nd av- dback		CO2
	Queue1 uses RR with TQ=17, Queue2 uses RR with TQ=25 and Queue3 uses FCFS.Priority of Queue is higher than Queue2 and hat of Queue2 is higher than Queue3					