

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 2018

Duration: 60 Min

Branch: Computers/IT

Semester: IV

Max. Marks: 20

Class: S.E.

Course Code: CE43/IT44

Name of the Course: Operating Systems

Instruction:

(1) All questions are compulsory

(2) Draw neat diagrams

(3) Assume suitable data if necessary

Q No.		Max. Mark 06 [2M] [1M] [1M] [1M] [1M]	11.		
Q.1	Use Round Robin Scheduling for the process mentioned below where time quantum, Q=4. 1. Draw Gnatt chart of the schedule. 2. Calculate the Completion Time of all the processes. 3. Calculate Turn Around Time of all the processes. 4. Calculate Waiting Time of all the processes. 5. Calculate Average Waiting Time Process Arrival Time Burst Time P1 0 24 P2 1 6 P3 2 7 P4 3 8				
Q.2(a)	ocan.(iii) o	points)	Batch System and Serial Processing Sys- OR States? (Draw suitable diagram.)	05	CO1

Q.2(b)	Consid	03	CO1			
,	void m					
	int p1,					
	p1 = f					
	wait(); if (p1					
	p2=for					
	if(p2=					
	printf(
	else					
	printf(
	printf(
	}		1			
Q.3	(i) Wł	[1M]				
	(ii) Justify your answer. Consider the following snapshot of a system at time T0. Total instances					000
	of reso	06	CO3			
	VOIII 18	Allocation	Max	apshot? (If yes give the safe sequence) Available		
		ABCD	ABCD	ABCD		*
	PO	2001	4212	3321		
	P1	3121	5252			
	P2	2103	2316			
	P3	1312	1424			
	P4	1432	3665			