Amity School of Engineering & Technology

Operating System Minor Examination (Feb 2018)

B.Tech. CSE/	/Evening/3C	Sem:	1	Total Marks: 20
		Section	A	
Note: Attempt a	ny three questions. Ea	ch question carrie	es equal marks (5).	
Q1. How proces	s is different from pro	gram? Explain va	rious states of process with	suitable diagram.
Q2. (a) How mu	ıltiprocessor systems a	re different from	distributed systems.	(2)
	pros and cons of vario			(3)
Q3. Consider th	e following set of proc	esses with the len	gth of CPU burst time giver	in millisecond
Process	burst time	Arrival Time		
P1	5	5		
P2	6	4		
Р3	7	3		
P4	9	1		
P5	2	2		
P6	3	6		
	art for SJF (Preemption average waiting time o		neduling .Take quantum tim	e of 4 milliseconds.
Q4. (a) Explain system calls by taking suitable example.				(2)
	context switching. Whesolved?	ich scheduling al	gorithm suffers from starvat	ion? How starvation (3)
		ection B (Compu	Icon Costion)	
or continu			isory Section;	
-	ne following snapshot	Max	Available	
Alloca		ABCD	ABCD	
1 / 4	ABCD			
P0	0012	0012	1520	
P1	1000	1750		
P2	1354	2356		
P3	0632	0652		

Answer the following questions using Banker's algorithm:

a) What is the content of matrix Need?

0014

b) Is the system in a safe state?

P4

(1+4)

0656