Code No: 134BU

5.a)

b)

JAWAHA		ear II Semester		April - 2018	KABAD
		OPERATIN	G SYSTEMS		
			to CSE, IT)		
Time: 3 hours	Sand Sand	and and	and and	·····Ma	x. Marks: 75
Note: This quest	ion nonor cont	oine two ports A	and P		
Note: This quest				swer all question	one in Part A
				n from each unit.	
		y have a, b, c as		i iioiii cacii aiiit.	Each question
	marks and ma	y nave u, e, e us	suo questions.		
		PAR	T- A	JJ	
There's there's	***************************************			Steeler Steeler	(25 Marks)
1.a) What are t	he different ty	pes of operating	systems?		[2]
		passed to system			[3]
c) Define ser		•			[2]
	e role of dispa				[3]
	ourpose of TLE				[2]
f) Distinguis	h between logi	ical address and	physical address	i	[3]
				k time and latenc	-
		red and exclusive			[3]
			a process migh	t need for its exe	
j) Describe r	ole-based acce	ess control.			[3]
2.a) Explain by	iefly system c		RT-B	JJ	(50 Marks)
		ons performed b		system.	[5+5]
, 1	1	-	\mathbf{R}	,	
3.a) State and o	explain various	s types of compu	ter systems.		
b) Explain if	you run the sa	me program twic	ce, what section	would be shared	in the memory.
i i	1 1	i i	i i	i i	[5+5]
4.a) Describe of semaphore	~ .	pher problem? I	Device an algori	thm to solve the	problem/using
b) Define pr	ocess. How n	nany different s	states a process	has? Explain v	when a process
changes th	ne state with a	state diagram?			[5+5]
		0	R		

Explain the readers writers problem and its solution using the concept of semaphores.

Explain about Inter Process communication.

		JJ	JJ	JJ	
i) Paging					
		le of locality" is	crucial to the use		ory? What is [5+5]
b) Consider string is	r there are three	mance of demand page frames wh 2,4,6. The numb	paging with neclich are initially	essary examples. empty. If the pa	ige reference
		e sharing. What a	: :	: :	: :
b) Compare	-	e of write operati AID level 0 organ OR	izations?	a RAID level 5	organization [5+5]
	the following terr				
ii) Thras b) What is	hing the maximum file riple indirection?	size supported by The block size is			
	bankers algorithn about domains of	n for deadlock avo	oidance with an e	xample.	[5+5]
11.a) A system and wait for D2. state or r	n has 3 devices Ding for D3. P2 is Draw resource a not? Explain.	OR O1, D2 and D3 and holding D2 and llocation graph a mods involved in r	waiting for D1. nd wait-for grap	P3 is holding D3 h. Is the system	s holding D1
		ooOo	0		
J	JJ	ooOo	o J J	JJ	
		ooOo			