SEAT No.____

[55]

No. of Printed Pages: 2

SARDAR PATEL UNIVERSITY P.G.D.C.A.A. Semester – I (NC) External Examination – April 2018 [PS01FDCT01]: Operating System

Frida	y - 20 th April	' 2018	-	Time: 2.	00pm to 5	.00pm		Max. M	arks: 70	
NOTE	[1] Figure ind	icated right is rulation where a	naxim and wh	um marl nen need	cs for each ed	question				
Q: 1	Select the appropriate option from the following								[80]	
	[a] 1.	[]			TOMB	[d]	5MB			
	[2] Using no	n-preemptive F	CFS so	cheduling	g, what is th	ne Average w	alting tim	e for follow	ing?	
		Process		Α	В	С	D			
		Burst Time	1	lo	6	2	4			
	[a]	11	[b]	8.5	[c]	10 `	[d]	7		
	[3] Layered architecture os operating system having									
	[a]	Six	[b]	Five	[c]	Four	[d]	Seven		
	[a]	the following p	[b]	LKU	[c]	Орина	101	None or a	r ? ne above	
	[5] Satellite: [a]	s launching in o Multiuser	orbit is [b]	an exar Real T	nple of Fime [c]	Oper Timeshari	ating Sys ng [d]	tem. None of th	nese	
	[6]	command is fork()			files. [c]	ср	[d]	cd		
	[a]	nds for Program Contr Process Count	ol Blo	ck ck	[b] [d]	•	Process Control Block Program Counter Block			
	[8] The technique used to solved problem of external fragmentation is known as									
	[a]	Process		Compa] Command		Paging		
Q: 2	2 Answer the	following que	estion	s in brie	ef [Attemp	t any seven]		[14]	
	[1] Define:	Operating Sys	tem. C	Sive any	two examp	les.				
	 [2] List types of Operating System and explain any one of them in brief [3] Explain terms: [1] Program [2] Process [4] List types of schedulers and explain any one of them in brief [5] What is client server architecture? 									
		first fit and bes			for selection	n of partitior	١.			
									[P.T.O	

[7] Explain deadlock. List necessary conditions to characterize deadlock [8] What is Fragmentation?								
[9] Briefly explain various mode of vi editor	r							
[A] Discuss functions of operating system[B] Draw and explain Process state life cycle in detail.	[06] [06]							
<u>Or</u>								
	[06]							
[A] Explain process creation and process termination operation on Process [B] Write a note on FCFS and SJF scheduling algorithm with appropriate example.								
<u>OR</u>								
[B] Write a note on Priority and Round Robin scheduling algorithm with appropriate example. [06]								
[A] Explain Contiguous Memory Allocation in detail [B] List page replacement algorithms, explain any one in detail with example	[06] [06]							
<u>OR</u>	[-0]							
[B] Write a note on Demand Paging.	[06]							
[A] What is Unix? Write History of Unix [B] Discuss features of unix in detail.	[06]							
<u>OR</u>	[06]							
[B] Explain Is, man, and who commands of unix in brief	[06]							
√	-							
	[9] Briefly explain various mode of vi editor [8] Briefly explain various mode of vi editor [8] Draw and explain Process state life cycle in detail. OR [8] What is virtual memory, explain its advantages and disadvantages [8] What is virtual memory, explain its advantages and disadvantages [9] Write a note on FCFS and SJF scheduling algorithm with appropriate example. OR [8] Write a note on Priority and Round Robin scheduling algorithm with appropriate example. [9] Explain Contiguous Memory Allocation in detail [9] List page replacement algorithms, explain any one in detail with example OR [9] Write a note on Demand Paging. [10] Write a note on Demand Paging. [11] What is Unix? Write History of Unix [12] Discuss features of unix in detail. OR [13] Explain Is, man, and who commands of unix in brief							