M.C.A. - I (CBCS Pattern) - Semester Sem I PSMCAT102 - Paper-II : Operating System and Linux

P. F Tin	Pages : ne : Thr	2 ee Hours	* 2 3 4 2 *	GUG/S/18/8041 Max. Marks : 80			
	Note	s: 1. 2. 3.	All the questions are compulsory and carry equal marks. Draw neat and labelled diagram and use supporting data wherever Avoid vague answers and write specific points/answer related to c	necessary. Juestions.			
1.	Eithe	er					
	a)	What is	operating system and explain its characteristics in details.	8			
	b)	Explain	CPU scheduling. Write any one scheduling Algorithm with examp	le. 8			
			OR				
	c)	Explain	evolution of operating system in details.	8			
	d)	What is	s. 8				
2.	Eithe	er					
	a)	What are Deadlocks and explain deadlock prevention techniques.					
	b)	Explain	8				
			OR				
	c)	Explain	8				
	d)	Define of	8				
3.	Eithe	er					
	a)	Explain	Linux architecture in details.	8			
	b)	Explain i) mk iii) cat	the following linux commands with example. adir ii) rmdir iv) cp	8			
			OR				
	c)	Describ	e Unix shell and explain its importance in details.	8			
	d)	Explain	unix file system with its architecture in details.	8			
4.	Eithe	er					
	a)	What ar	e shell scripts? Explain filters with examples.	8			
(GUG/S/	18/8041	1	P.T.O			

b) Describe file system of linux operating system and how linux file system is more secure than windows.

0	R
\mathbf{v}	••

c)	Explain following commands.								
	i)	PS	ii)	Kill					
	iii)	Chrown	iv)	grep					
d)	Exp	plain process in shell scripts and various control flow statements in details.							
Attempt all the questions.									
	a)	Write a short note on system calls.							
	b) Write a short note on 'Semaphore'.								
	c)		4						
	d)	Write a note on shell parameters.			4				

GUG/S/18/8041

5.