

B.Sc. (With Credits)-Regular-Semester 2012 Sem II

2SCS-T1 Computer Science -I (Operating System Paper - I)

P. Page	es : 4			
Time : '	Three Hou	ırs	Max. Marks : 50	
No		All questions are carry equal marks. Draw neat and wherever necessary	clean diagram	
1.	Either :			
a)	What is	Real time system? Ex	xplain. 5	
b)	Write note on: i) I/O Interrupts. ii) Storage Hierarchy.			
		OR		
c)	What is Swap-ou	Swapping? Explain S ıt.	Swap-in and 5	
d)	Write a s	short note on I/O stru ucture.	icture and 5	
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2.		Eitner:					
	a)	Explain the following in detail : i) System Protection. ii) Networking.	5				
	b)	Explain how operating system manages the devices.	5				
	OR						
	c)	What is process? List and explain different states of process.	5				
	d)	Explain System Call. What happens when a system call is executed?	5				
3 .		Either:					
	a)	What is Kernel Operating System? Explain its functions.	5				
	b)	Explain the following commands: i) rmdir ii) cp	5				
		OR					

	c)	Discuss the hierarchical structure of File system of Linux Operating system.	5				
	d)	Explain the following commands : i) In ii) mkdir	5				
4.		Either:					
	a)	Write a Shell Script to check whether two names that we have accepted are identical or not.	5				
	b)	Explain the following Security and Protection commands in Linux : i) chown ii) chmod	5				
OR							
	c)	Explain the use of pipes and filters.	5				
	d)	Write a Shell Script to accept age and display appropriate message as follows: If age "above 80", then "too old" "60-80", then "simply odd" "30-60", then "middle age"	5				

- **5.** All the below questions are compulsory.
 - a) Discuss the functions of Operating System. $2\frac{1}{2}$
 - b) Explain the simple system structure of Operating system. **2**½
 - c) What is the use of vi editor? Explain. $2\frac{1}{2}$
 - d) Explain the switch command used in Linux with an example.

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