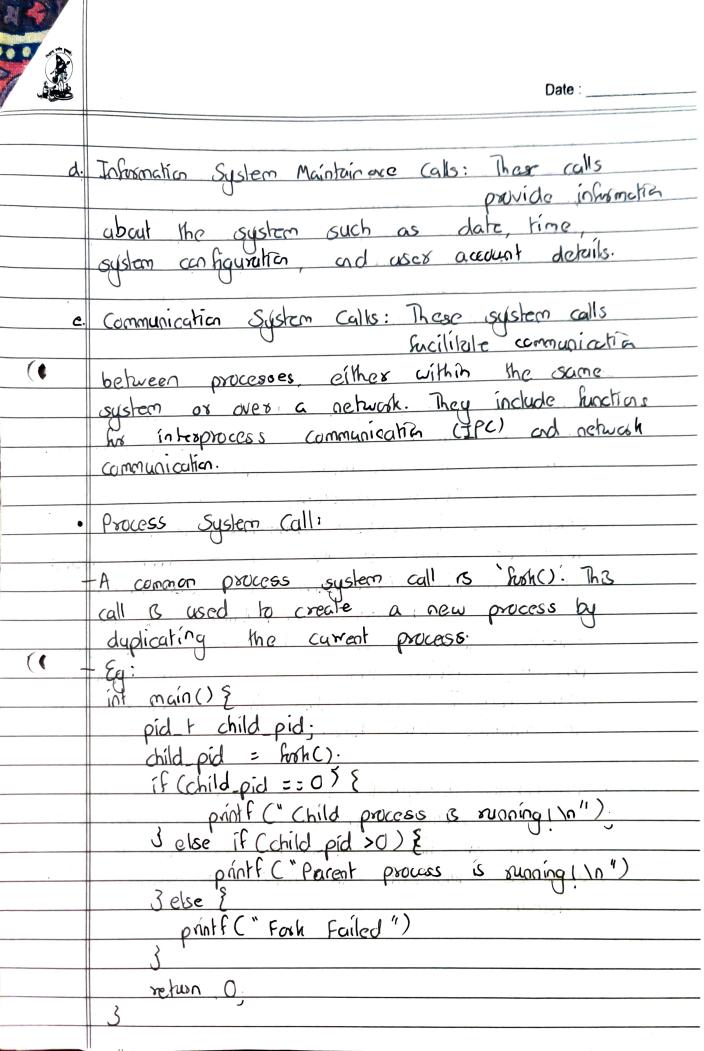
/	Date :
	Name: Aakash A. Jashi
	Roll no: 0077
	Brench: TE Comp Batch: T4
	Brench: TE Comp Batch: T4  Subject: System Programming and Operating Systems
	Topic: Assignment 4 (Theory)
	La contrata de la contrata del contrata de la contrata del contrata de la contrata del contrata de la contrata de la contrata de la contrata del contrata de la contrata del contrata del contrata del contrata del contrata de la contrata del cont
·	
•	
77 7	man in the containing was will be
· · · · · · · · · · · · · · · ·	the state of the s
	The second secon
	was the top or and the through
•	



	Date :
ŀ	Questions List categories and sustan calls and emplain
7.	List categories and system calls and explain Process System Call with an example. Explain various scheduling cinteria.
	explain various scheduling contra.
(,	Answers:
	System Calls can be categorised into several groups based on their functionality. Here are some
0.	Categorias:
α.	Process Control System Calls: These system calls  deals with oncesses
	including process creation termination and management. They are crucial firs the control and coordination of processes in an operating system.
	and coordination of processes in an operating
b.	File Management System Calls: The system calls
	are used for file used for file withing deleting and manipulating files and directorias.
	directing and manipulating files and
C·	Device Monagement Sydem Cille 7
	Device Monagement System Calls: Those calls hardle devices like
	protess keyboards and other 1/0 devices They
	printers keyboards and other 1/0 devices They include functions to open read write and close devices.
	Gences.





Date : \_\_\_\_

-	In the enample, 'hoh()' system call creates a
	new child process. If 'sush()' returns 0, then
	the code is sunning in the child process,
	the cade & sunning in the child process, and if its apreates than 0, its the parent process. The child process inherits a appropriate of the according to the process inherits a appropriate of the according to t
	process. The child process inherits a apy
	pursons memory and continues anecution
, ,	hom that point.
2.	
, ,	
,	Scheduling Criteria are used to determine the
	WILL ON COSCES
	Schedula Schedula
	ACIC III III COSC COSCIALO
a	Here are somes of the key scheduling critoria:
	manimizing CPU utilization is
	CPU Utilization: Manimizing CPU utilization is  common scheduling goal. This  critarion aims to keep the CPU as busy as  possible ensuring that it is a source is
	possible engines 4 h 11 as busy as
	efficiently. To ushing us us
	to minimize idle time scheduler attempts
	possible ensuring that it is processing tasks efficiently. To achieve this, the scheduler attempts to minimize idle time.
	number of the
	Throughout: Throughput is a measure of the number of processes completed in
	a unit of time. Schedulers may aim to manimize impostent in batch processing
	systems. Batch processing

Date: a Turnaroud Time: Turnaround time is the total time taken to execute a process from the moment it's submitted until it completes. d. Waiting Time: Waiting time is the time a pricess spends waiting in the ready quoue before getting cpu time. e Rasponse Time: Waiting Time B the time a process spends waiting in the ready queue before getting CPU time.