

Q.N O	QUESTIONS	MARK S	CO	B L	PI
Part A					
1	What do you mean by an operating system? What are its basic functions?	2	CO1	L1	1.7.1
2	What is a Pipe and when it is used?	2	CO1	L1	1.7.1
3	With appropriate example discuss how user program, API, system call interface, system call and operating system are related? printf() calls standard C-library (API) (user program through API calls C-library function printf()) C-Library calls system call write() (C-lib function will call a system call write() through system call interface) Operating system will execute write() system call and the result will be return to API (C-lib) through system call interface. API inturn retuns the result to user program	2	CO1	L4	2.6.3
4	How many processes will be created by the following program segment: fork(); fork(); fork();Why? 7	2	CO2	L2	2.6.3
5	When the OS runs the same application twice, is each run treated as the same process?	2	CO2	L3	2.6.3
Part B Answer ALL Questions					
6	What are the various services provided by an Operating System.	5	CO1	L1	1.7.1
7	What is a process? What are the different states of a process?	5	CO2	L1	1.7.1
8	Write a code segment in C/C++ where a parent forks two child processes, the child processes execute some designated tasks, and the parent waits for the termination of the two child processes, before printing the message "Parent exiting ...".	5	CO2	L3	2.6.3
Total Marks for CO1		11			
Total Marks for CO2		14			