



Parul University
Faculty of Engineering and Technology
Parul Institute of Engineering and Technology
Electrical Engineering Department

Subject Name	Operating System and Platform Security	A.Y	2026-27
Subject Code	3012602PC01	Semester	2nd
Chapter-1			
Sr No	Question	COs	B.T
1	1. Define an Operating System and list its primary functions. 2. Explain different types of operating systems with examples. 3. What are system calls? Explain their types. 4. Differentiate between monolithic and microkernel architecture. 5. Explain virtualization and virtual machines.	2	1,2
2	1. Define a process and explain process states. 2. What is PCB? Explain its contents. 3. Define threads and list their advantages. 4. Explain context switching. 5. What is process isolation?	3	1,3
3	1. What is memory management? 2. Explain paging and segmentation. 3. Define virtual memory. 4. What is demand paging? 5. What is ASLR?	3,1	2,4
4	1. Define IPC. 2. What is a critical section? 3. Explain race condition. 4. What are semaphores? 5. Define deadlock.	4,1	6
5	1. Define file system. 2. Explain file access methods. 3. What is disk scheduling? 4. Define ACLs. 5. What is secure boot?	5,2	3