

		<b>Parul University</b> <b>Faculty of Engineering and Technology</b> <b>Parul Institute of Engineering and Technology</b> <b>Electrical Engineering Department</b>					
<b>Subject Name</b>	<b>Operating System and Platform Security</b>						
<b>Subject Code</b>	3012602PC01						
<b>Chapter-1</b>							
<b>Sr No</b>	<b>Question</b>	<b>COs</b>	<b>B.T</b>				
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				