Unit 1: Operating System Overview Assignment 1

- 1. Define the terms **shell** and **system call**. How is it handled? Illustrate a suitable example.
- 2. What are different **types of operating systems**? Explain each in detail.
- 3. What is a **system call**? Discuss the process of handling system calls briefly.
- 4. What is the system call in the OS? What are the different methods to invoke system calls in the OS? Explain different types of system calls in the OS?
- 5. What is a shell in an operating system? What is the function of a shell?
- 6. What is a virtual machine? Explain in detail.
- 7. Explain different **types of kernel structure** in detail with suitable diagrams and advantages and disadvantages.
- 8. What is **Kernel in OS**? Explain its functionality.
- 9. What is a layered Operating System (OS)? Explain in detail.
- 10. Explain microkernels and exokernels.