

- 1) What is operating system? [2]
- 2) What are the functions of Operating System? [4]
- 3) Explain the Monolithic and Layered Architecture of Operating System. [2]
- 4) Compare and contrast between monitor and semaphore. [4]
- 5) Write for solving Dining Philosophers Problem using any one technique at the pseudocode level illustration. [4]
- 6) How DMA increases the system consistency? [2]
- 7) Prepare comparative note on virtual memory management using Paging versus Segmentation. [4]
- 8) What is indefinite postponement? [2]
- 9) What are the security issues associated with OS? Discuss them. [4]
- 10) Describe the roles and responsibilities of system administrator. [4]
- 11) What is File System in any OS? [2]
- 12) Explain OS as resource manager. [4]
- 13) Define virtual memory and explain how it is achieved by demand paging. [4]
- 14) Define directory and file path. [2]
- 15) What are the security problems associated with OS? [2]
- 16) What do you mean by disk arm scheduling? [2]
- 17) What do you mean by critical region problem? [2]
- 18) List some system administration tasks in OS. [2]
- 19) Define deadlock. [2]