1. Explain concurrency in operating systems. List the factors that determine what makes it impossible to determine the relative speed of processes in operating systems. List and explain two problems with concurrency.
2. Describe the components of a process and execution context.
3. Discuss context switching, showing diagrams. What are the advantages and disadvantages of context switching?
4. Describe process scheduling and one of the categories of scheduling. An operating system maintains three important queues. Using diagrams, describe these queues.
5. Differentiate between the long-term and short-term scheduler. Also, list four scheduling criteria.
6. List four scheduling algorithms and explain one of them.