

## Section 5

Q2. What is the cause of thrashing? Describe operations performed by kernel.

- Thrashing is caused by under allocation of the minimum number of pages required by a program forcing it in to continuously page fault. The system can detect thrashing by evaluating the level of CPU utilization as compared to the level of multiprogramming.
- Thrashing refers to an instance of high paging activity this happens when it is spending more time paging instead of executing.

## Kernel

The Kernel is a computer program at the core of a computer's operating system with complete control over everything in the system. It is an integral part of any operating system. It is the portion of the operating system code that is always resident in memory. It facilitates interaction between hardware and software components. In most systems, it is one of the first programs loaded at startup. It handles the rest of startup as well as input/output requests from software tasks.