

## Section - 5

Q2) What is the Cause of thrashing?  
Describe operation performed by Kernel.

- Thrashing is caused by under allocation of the minimum number of pages required by a process, forcing it to continuously page fault. The system can detect thrashing by evaluating the level of CPU utilisation as compared to the level of multiprogramming.

- Thrashing refers to an instance of high paging activity. This happens when it's 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. On most systems, it is one of the first programs loaded startup. It handles the rest of startup as well as input/output requests from software thrashing.