

Ans

3.

Program

Process

- Program contains a set of instructions designed to complete a specific task.
- Process is an instance of an executing program.
- Program is a passive entity as it resides in the secondary memory.
- Process is an active entity as it is loaded during execution and loaded into main memory.
- Program exists at a single place and continues to exist until it is deleted.
- Process exists for a limited span of time as it gets terminated after the completion of task.
- Programme is a static entity.
- Process is a dynamic entity.

- Program does not have any control block

- Process has its own control block called process control block

- Program does not have any resource requirement

- Process has a high resource requirement

In computing a context switch is the process of storing the state of a process or thread, so that it can be restored and resume execution at a later point.

This allows multiple processes to share a single CPU, and is an essential feature of a multitasking operating system.