- Main memory accommodates multiple processes and the processor select next process when one process is blocked. So even with multiprogramming operating system, a processor could be idle most of the time. Main memory size is increased for accommodating more processes but cost will increase.

- **Suspended state :** when all of the processes in main memory are in the blocked state, the operating system can suspend one process by putting it in the suspend state and transferring it to disk. The space that is freed in main memory can then be used to bring in another process.

- Characteristics of a suspended process :

  1. The process cannot execute immediately.

  2. The process may or may not be waiting for an event.

  3. The process was placed in a suspended state by a parent process, or itself or by operating system.

  4. The process may not be removed from suspended state until its turn comes.

University Question

1. *What is a process ? Discuss components of process and various states of a process with the help of a process state transition diagram.* **AU : Dec.-17, Marks 8**