

## Section-5

Ans-3 Operating system acts as an interface between the software and computer hardware.

It is an integrated set of specialized programs used to manage overall resources and operations of the computer.

Operating System provides the following important services:-

- ⇒ Processor Mgmt.
- ⇒ Memory Management
- ⇒ File System Management
- ⇒ Input-Output Management
- ⇒ security

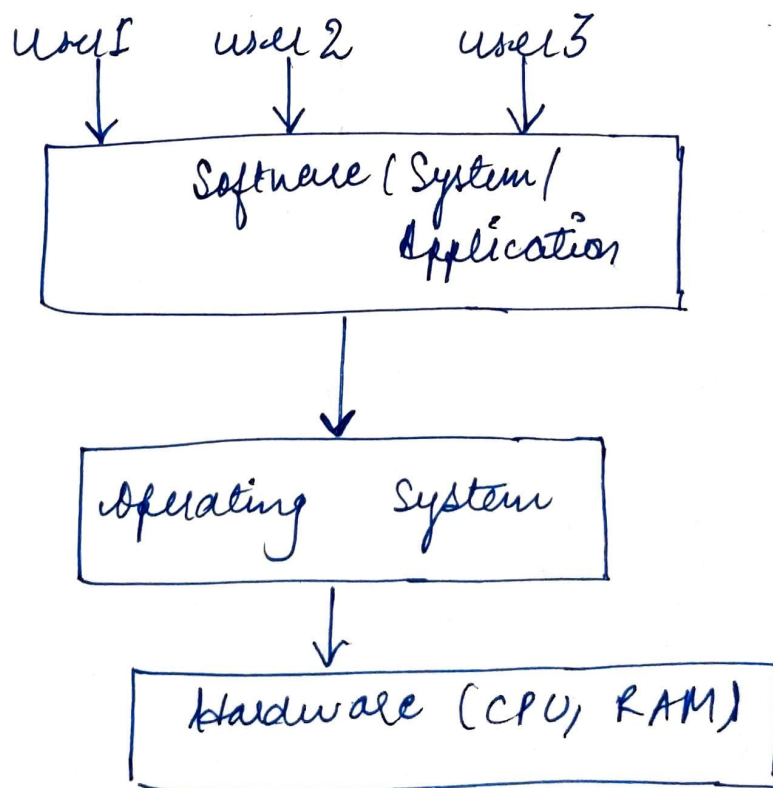
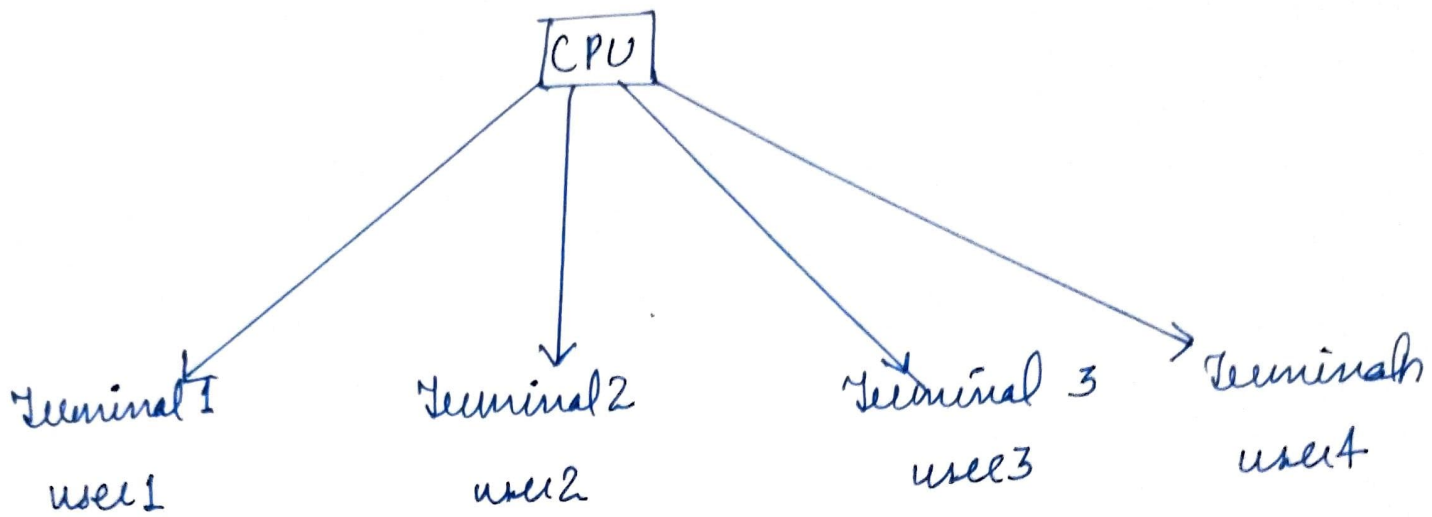


Fig: O.S.

Examples:- Batch, Real Time, Time sharing O.S.

## Time Sharing O.S. :-



Time sharing system (Multi-tasking for multiple users).

- Time sharing O.S. allows users to run multiple tasks concurrently.
- It provides each user his own terminal for input output and an impact that only he/she is the one who is running his/her process on the system.
- This implies CPU's time is shared among many users.
- With increased number of processes, throughput gets decreased.
- Memory protection is a major issue which has to be handled out by Kernel Mode Processing.