

Class Test-1 Course: Operating Systems Course code: CSE 309

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## Class Test - 1

1 NO Ans Process

Soln:

A process is basically a program in execution. The execution of a process must progress in a requestial way.

Process life cycle: Terminaled) (Running) (neody Start Wait

Program A program is executible file which contains a centain set of

instructions written to complete the specific job on own computer. For example: Grougle bnowner chrome-exe is an executable file which stones a set of instructions written in it which allow us to view Web pages.

2 No Ann

Soln: The full form of PCB is "Process Control Block". It is a data structure that contains information of the process related to it. The process control block is also known as a task control block, entry of a Process table etc.

PCB helps us to stone all the information nequined to keep thack of all the number of Processes. It is also accountable for stoning the contents of processor negisters. These are saved When the process moves from the number state and then network back to it.

Some important components of PCB are:-

Process state: A process can be new neady, numning, waiting, etc.
Program counter: The program counter lets the know us know
the address OF the next instruction.

and general-purpose negistons and information of condition Code.

process priority and various others scheduling parameters.

Memony-management: Memony alloweded to the process.

Accounting Information: 1 cpu used, otime limits etc.
110 Stutus Information: 110 device allowcated process,

a list of open files and so on.

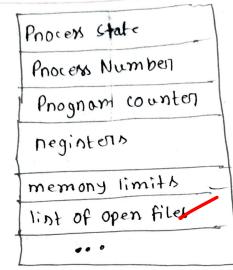


Figure: Process control block (PCB)

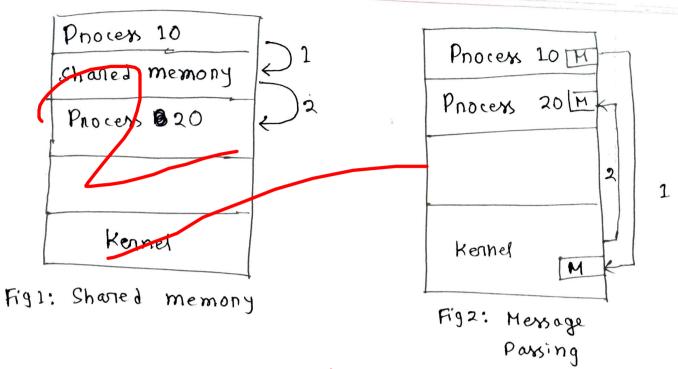
## 3NO Ans

Soln: The communication between two process can be Neen as a method of co-operation between them. process can be communicate with each other through both:

1) Shared Memony

2) Message passing

An operation of System can implement both method of communication. Here we will consider two processes: process 10 and process 20 to 8 explain it.



Communication between using shared memory nequines to share some variable and it completely depends on how programmer will implement it.

Communication between wing message passing does not nequine any kind of shared memony.