



# Bangladesh Army University of Engineering & Technology

Qadirabad Cantonment Natore-6431

SL NO:		<b>Class Test Script</b>				<b>Class Test</b>
Course Code: CSE-3211		Class Test	01	Invigilator's Signature & Date		
Course Title: Operating System				Exam Date: 31-01-21		
Batch: 7th	Semester: 6th	Department: CSE		Section:		
ID NO: 18104050			Obtained Mark:			

(Please answer questions from here)

1. Ans: Process-informally, is a program in execution. A process is something that is currently under execution. So, an active program can be called a process. For example, when you want to search something on web then you start a browser. So, this can be process.
- Job and process almost interchangeable used. The program code is part of the process, also called text section. Program counter, processor registers.



## Process Control Block :

is Also called task control block.

i. Process state - running, waiting etc.

ii. Program counter - location of instruction to next execute.

iii. CPU registers - contents of all process - control registers.

iv. CPU scheduling information - priorities.

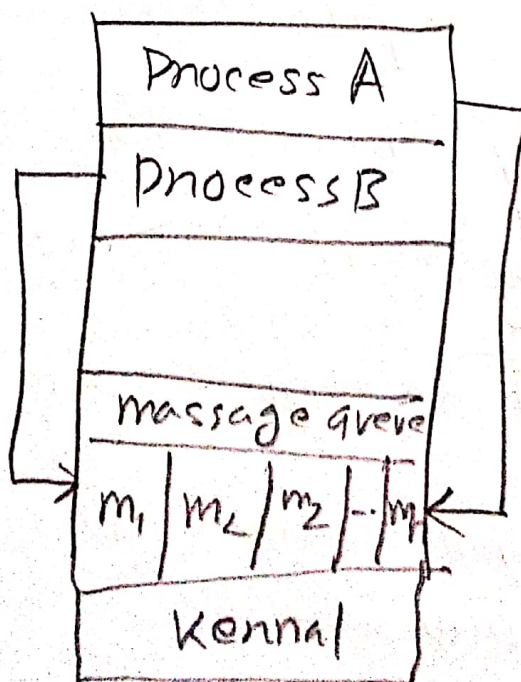
v. Memory-management information.

vi. Accounting information - CPU used.

vii. I/O status information - I/O devices allocated to process.

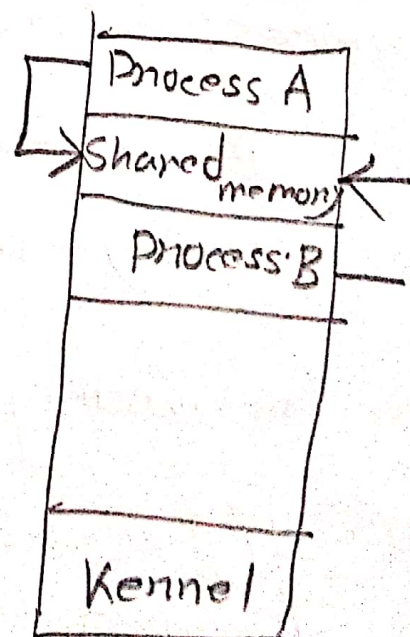
Process state
Process number
Program counter
registers
memory limits
list of open files
...

2. Ans: In the ~~shared mem~~ Shared-memory model, a region of memory that is shared by cooperating process is established. Process can then exchange information by reading and writing data to the shared region. In message passing model, communication takes place by means of messages exchanged between the cooperating process.



(a)

Message passing

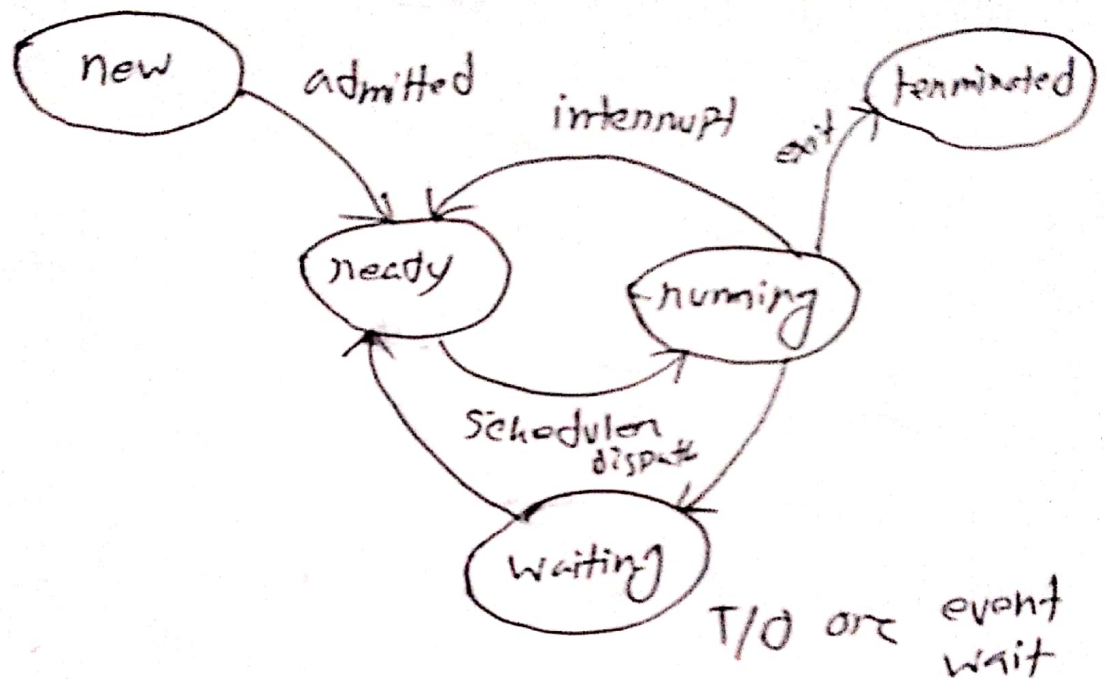


(b)

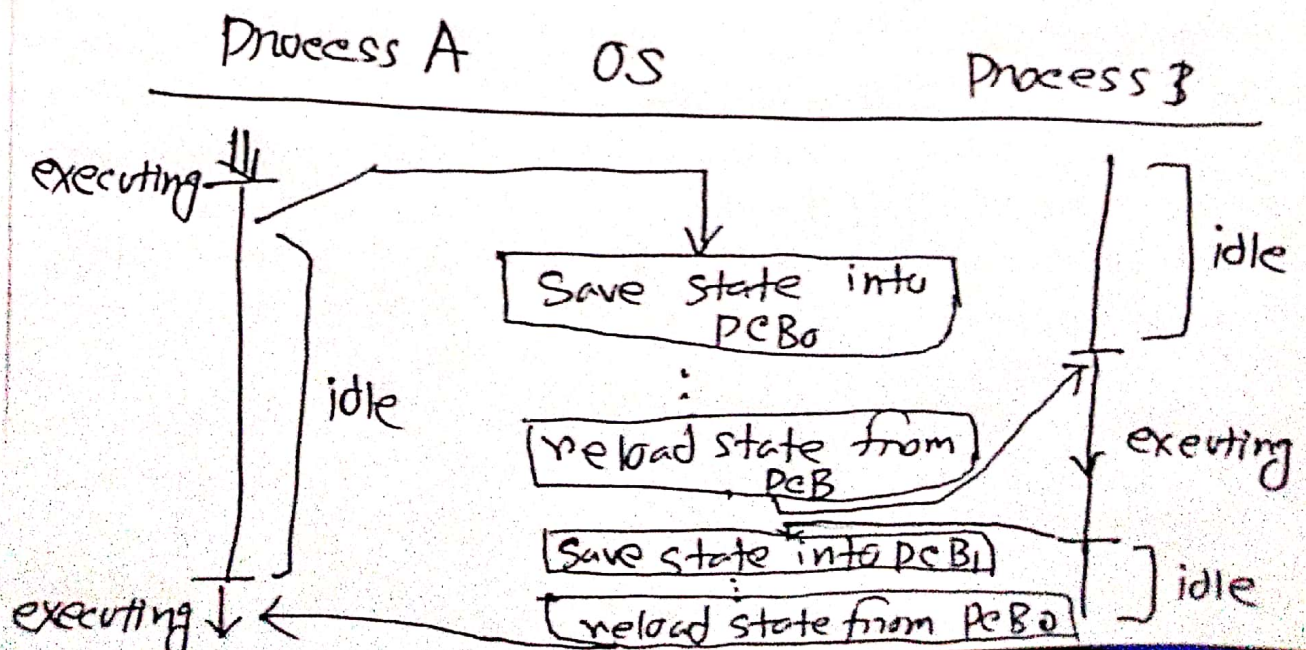
Shared memory.



3. Ans: A process state diagram for a shared word file,



CPU switch from process to process



Here these process diagram  
describe CPU switching between  
process to process in several times.