2CB0360

D D M M Y Y Y Y

(1) Operating System :-

It is a System Software that manages Hardware as well as Software that provides Services to the Computer programs.

(6.b) (1)

Multi processor System

Clustered System

D D M M Y Y Y Y

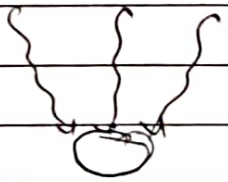
4.b)

Process	Threads
→ It consumes more time	→ It consumes less time
→ process is collection of threads	→ Thread it is unit of process
→ process are not segment	→ threads are segment
→ data share possible	→ data share not possible

03 b) Multi-threading module:

These are small in size stores less amount of data:

It stores the data of a function



many to one

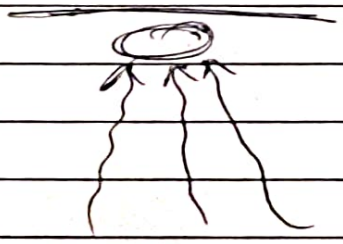
→ These are expensive but also speed

→ These multi-threading module will take less time compared to the single threading module

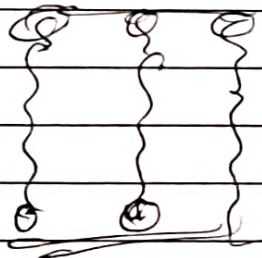
(i) One to one
(ii) Many to one
(iii) Many to many

one-to-one

(iv)



many to one



many to many

D D M M Y Y Y Y

2.b) System Calls:

These are the functions of the interface specified by an operating system.

→ System Call is nothing but command given to the Computer the perform any of the operations like read, write etc

Eg:
to open a folder - open()
to read - read()
to write - write()

Types of System Call:
- performance caches
- Security System calls
- Device management
- Information maintanance
- file System call
- memory System call
- Communication System Call

Memory System call:
This function is used to store the data.

file System call:
this function is used to organize the data in a file.

Communication System call:
This function is used to share or transfer data from one to another

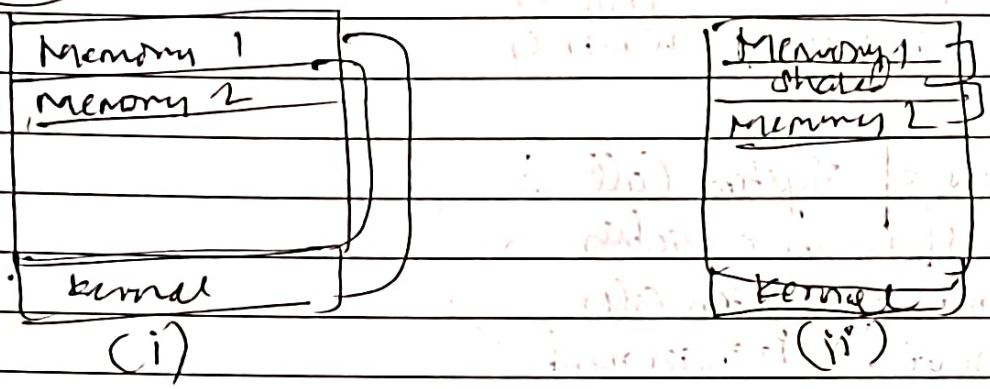
D D M M Y Y Y Y

Q3 a) Inter process communication:

It is a communication between the process like the transfer of data from the stored memory to kernel.

There are two types of passing

1. Message passing
2. Stored memory concept



In this first the data in is transferred from memory 1 to memory 2 then the transferred data will be connecting to the kernel.

D D M M Y Y Y Y

Quiz

(1) a) fork

(2) a) when process is scheduled to run after some execution

(3) b) communication between two process

(4) b) program counter

(5) b) S