Semaphore : It is an integer variable, used to concurrent control

access to common resource by multiple processes in system.

It is an integer variable that, apart from initialization, is

accessed any through two standard adomic operations,

wait fisignal.

2A)	Monitor is charact is an abstract data type whose construct
	allow some process to get activate at one time
	→ 9t is an abstract data type used for process synchronization
	1 + + 7 <u>3</u>
3A)	The semaphores which are restricted to 0 \$ 1 values
	are called binary semaphors
4 8)	Semapholes which allow an arbitrary viesouice count of
	non-negetive integer values - countring semaphore
5 K)	wait(), signal()
6.A)	While a process is in critical section, another process that the
	to enter critical section must loop continuously. This cooping us
	a problem in system, where only I CPU is should among
	process, ithis is called as buy waiting
721	Busy uniting wastes CPU cycles that someother process might
	be able to use Thes type of simaphore as spin wie.
(A.S	It has boolean variable available whose value marcares
	lock is avaliable of not
	of call to arquire succeeds the lock is unavailable of process
park and	attempts to acquire unavailable , lock in blocked till lock
2 4	The high priority process waiting for a lower-priority one to
9.6)	finish is known as priority inversion
104	mutex, weit, readcount
المدا	mutex, full, empty
	chopstick[]
TOTAL CONTRACTOR OF THE PARTY O	monitor monitor-name
	E procedure body PI()
• 1	initialization
	<u> </u>
148)	x.wait() ;x.signal()

	wait(s) Ewhile (S = b) Date Page Page
10	son wait() > P (for wait; from putch Proberes, to test) signal() > V (for signal; from verbogen, to increment)
adams	signal(s) Estt
t	The same of the sa
17	n Semaphore is a structure variable which consists of an
	integer value & bor list of processes available
18.89	It is a situation where processes wait indefinitely
·	within the semaphore.
	a desired and a second of the second of the second of
	Fixed — equal — Internal Fragmentation
	Dunamic: unequal -> Individual queses using
på - bil god	Using different ques
	External Fragmentation
	(Can be solved using compaction)
	tia to televitore il del
24)	The memory allocated to process may be slightly larger
	than requested. The difference blu is internal pagmentation
	memory that is internal to partition but in
	mot being used intention man utiling his at he
3A)	When enough total memory space exists to specific satisfy
	a request, but not contiquous, Storage in fragmente I into
-	mall holes. This is external framentation.
-(6)	monny allocated chiefty touther
	creating empty space together interior interior
	Land - Brid - Br
	nother design in
_	
	요. 1986년 1988년 1984년 1985년 - 1985년 - 1985년 1985년 1985년 1985년 1985년 1986년 1986년 1986년 1986년 1986년 1986년 1986년 1