<b>建销</b> 加	Classmate  Date Page	1
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	ROLL: U18 C0081	
	CLASS: BTECH COMPS. 6TH SEM	

	U1800081 KRUNAL RANK, K.P.Rah
	Operating System
Auli	Thread is a small part of the process that executes some segment of the process.  A process can have multiple threads:
•	Some valid differences between a thread and a process are as follows: Thread is more efficient in terms of content switching, terminates or creation than a process Thread A process can have multiple threads but a thread belongs to only a single process.
•	Processes are isolated whereas threads have shared memory.
Ansz,	A race condition occurs then outrome is depended on triming sequence of threads or processes.
2.21	Let's assume that Thread A execute withdraw? It reads the Current amount as Rs 500. Let us assume thread B executes deposit which also assumes same current amount.
	Now, if thead A withdraws \$250 and writes \$250 as remaining account and thread B deposits \$250 and writes \$250 as deposited by remaining amond which are with wrong. Hence, Whichever transaction happened first writes a wrong value.
7.	To prevent such conditions, we need synchronization such ous muteulocks or semaphones.
	the very test on the first of held.

U1800081 KRUNAL RANK 16.12.1912 Ans 3, A wait operation at automatically decrements the value associated with the beinaphore. If he vait operations are executed on a Semaphore than when semaphore value is 1, the first process enters the oritical some while the other walk for the Rist process to call signal. It they are not executed automatically then it is possible Anss that both operations might decrement bemaphene value and hence, Wolode the principle of mutual enclusion Ans 4. Deadlock is a silvahan where one or more processes are harting her each other to Rhish For example, requirement of resource when how ras process brush -otherise having the Some conditions of deadlock are as follows: Mutual Exclusion: - The resource is held by only one process at a time. In such a case some processes might be Hold and Wait: A process can hold a number of reserved at a time and of the same time can regular for resources that are being held.

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Page	UISCOOSI KRUNAL RANK MIKIRAK 1913 Q. Page	Commence of the second
2 value	No preemphan: A vasource can't be preempted from the	11 1
have,	· Circular Wait : Circular Wait 16 a contille	2 2 2
or the	held by the third process & so on.	1 1 1
assible.	ness	-
uclusion.	a) The Crant chart will be as follows:	-
are		1
A SunA	P1/CPU P2/CPU P3/CPU P2/CPU P1 /CPU P3 P1 P2 CP1 10)	Contract of the last
of hen from	11 13 14 15 17 18 P4 P2 P4	4
3 the	(P4,P210) (P4 10)  The valion of CPU ille time is given by=	4
. Å	The ration of CPU ille time is given by =  Total regular time for CPU = 1+3+2+2+3+1+1+1  = 14 units	
one	Total time when processes completed = 18 units.	
resources	Jdle hine = 18-14= 4 cnits.  Jdle hine vahor = 4 = 2 = 22%.	
regiant	Jale home varior = 18 9 =	
		Salatan Salatan

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