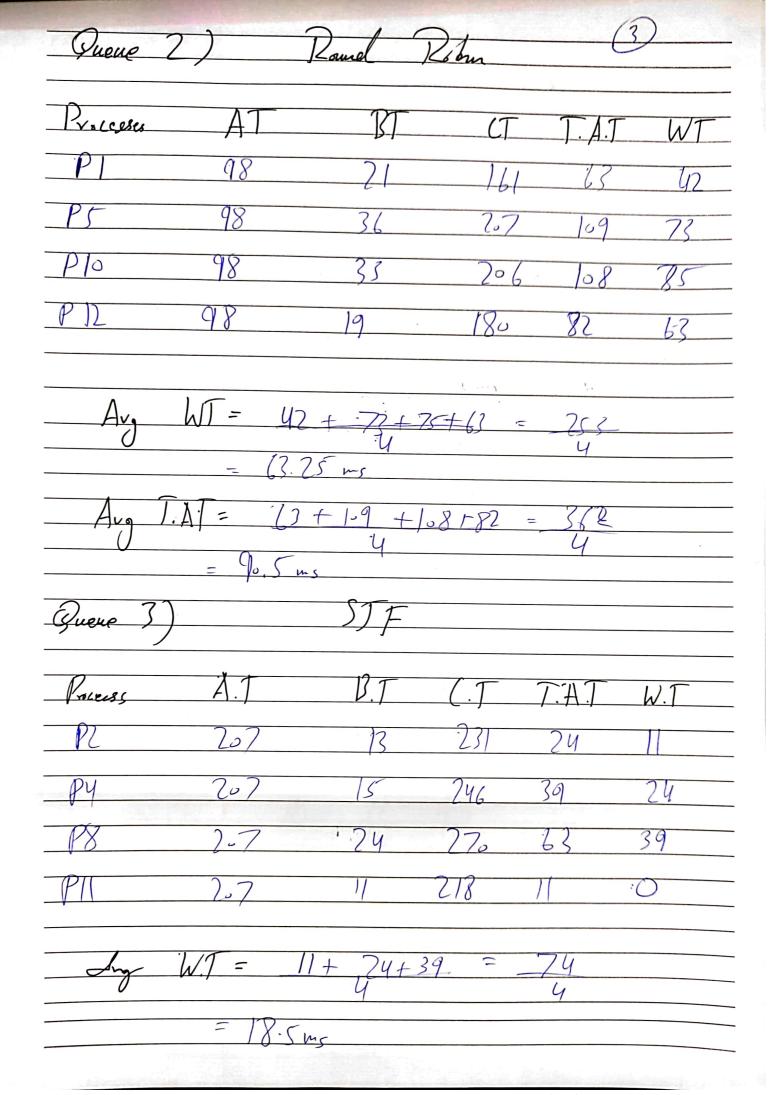
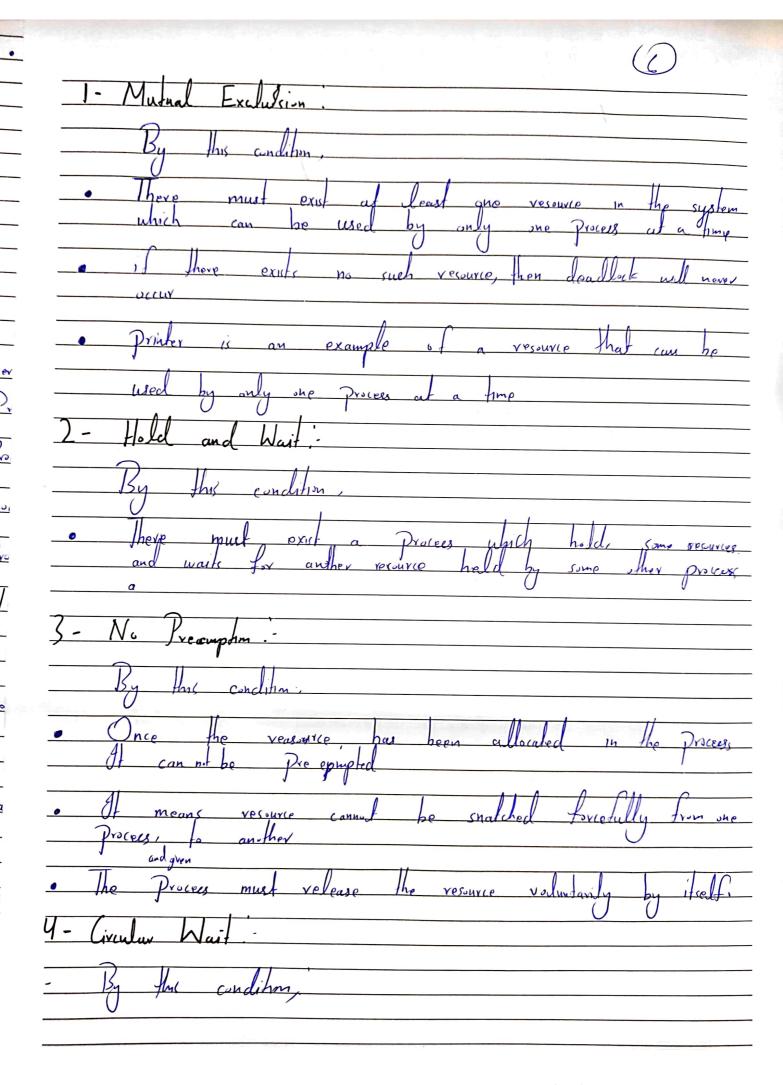


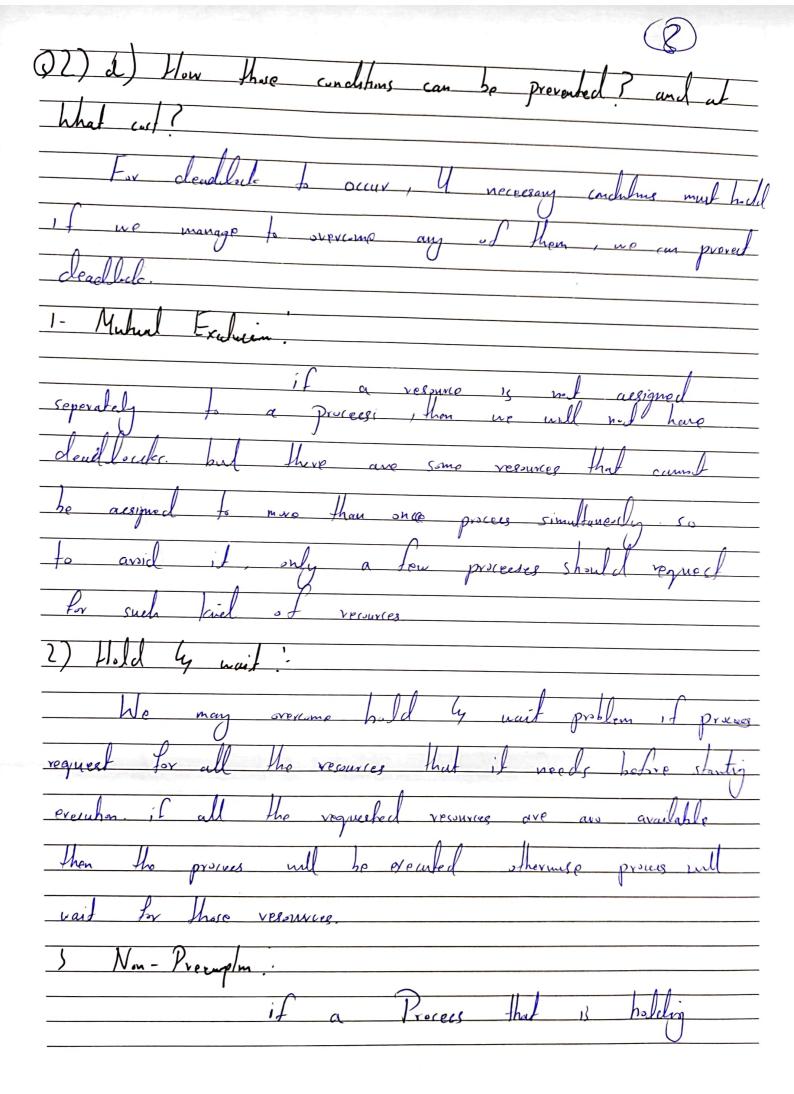
The second second			((2)
Quechm	() c)			
Queue 1	P3 P6 P7 P9) 0 26 57 86 98		FCFS	
Ouone ?	P1 P5 P10 P12			,
Rand Rubyn	-> P12 P1 P5 P10 1			
Onene 3:	PII PZ PU P8 2-7 218 231 246 27	5. 70	JF	
Quechm 1)	dj			
Queue	FCFS			
Process	Buxx Time	W.T	T.A.T	(.[
P3	76	0	26	26
P 6	31	71		<u></u>
				
P7	29	57	36	86
P9	29	57 Pa.86	36	86
P9 Ay WT	29 12 = 0+26+57+128 4 = 2578 2ms	57 1286 36 = 95 4	86 98 (69 = U	86 18 2.25 ms



(ζ)
QZ) a) What is deadlack?
Ins) Dead lock is a situation where a set of
Processes are blocked because oach Process is holding
a resource and waiting for another resource arguired by
Some other Process if process to wasting for a
resource that Process I has and Process II is waiting
for a resource that process I has
Q2) b) Why a deadlock occurs?
Ins) Deadlock occurs when any process enters a
waiting state because another waiting Proces is holding
the demanded resources. They generally occur in non-preemptable
vesources. If It also occurs when lets say process t
reguests is waiting for a resource that process B has and
Process B is washing for a resource that process I has.
Therefore a deadliste occurs.
Q2) () Explain the conclision that
Ans) There are following 4 necessary conditions
Lor occurance of deadlocker.



. Ill the Processes must want for the resource in
^ /
for the vessurce hald by the first porecess.
7(PZ)
(P1)
010
1
here:
Process Pl waits for a vecensio held by PZ
Process P2 wasts for a resource hald by P3
Process P3 waits for a vessure held by P5
Process Py waits for a resource hall by Pl
Process Py waits for a resource hold by Pl
Note:
- All these 4 conditions must simultaneously tox
the occurance of deadlede
- it any of these conclume tail yelow is
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in the second of



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yesourc	es for s.	thos process	es wil	1 start	agun	and
	have all			alable.		
9 - Cir	Kulan wait	<u>'</u>				
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		-,,-	100			

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each condition has I different cast i.e.
Mukuel Exalugur - 8
Muhal Exalusin - s nort all vessures There are some vegances which
cannot be assigned to move than I prices simple
Huis is simp conquing by
wastes resources but dead lock can be grevenled
1/ n /
This can be applied to resources but
This can be applied to resources but cannot be used for resources but cannot be used for resources like tape or Priler
Circular wait: This cannot be used it up used
to print a huge fulo.