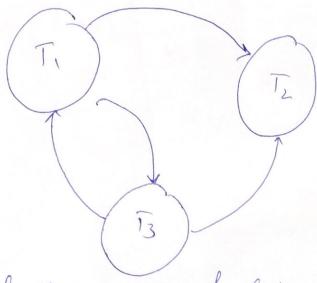
Assignment # 4 2018-EE-71

Question # 1:

Ti	2	13
$R_i(x)$	2(2)	
$R_1(x)$		R(1) R(2)
w, (x)		R ₃ (x) (₅ (y)
	(R2(Y) W2(W2(Z)	(Y) W ₃ (X)

Precedence Groph:



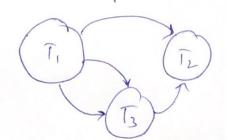
Not serializable because of Cycle.

S2:-

for S2 the question provided Loss two instances of R_(Y) which is not correct since there is only one read of object Y in T2. So the following solution ignores second instance of R_(Y) in S2.

Ti	Ĩ _L	13
R(x)		
	R2(2)	
		R3(X)
R, (2)		
	R2(Y)	
		R3(Y)
W, O		
	W, (2)	$W_3(X)$
	WLC	y) \

Precedence Grophi-



Not serializable because of Gele present between I, and I3.

Questia 2:

	Time	T1 Buffer	T2 Buffer	Actual Database
	El	Total = 100	Null	Current state as given in questia
-	t2	Total = 125	Null	Some as above
	+3	total = 125	p3 = 10	some as above
	44	total - 125	P3 = 20	Some as orbere
1	ts	total = 145	P3 = 20	Same as above
	16	total = 160	P3 = 20	Some as above
	67	total = 210	P3 = 20	Come 98 abore
	t8	total = 210	P3 = 20 P1 = 100	Some 98 abere
	1-9	total=210	P3 = 20 P1 = 90	Some as above
	Ho	total=210	P3 = 2e P1 = 90	Stream in toble below

PID	1 Panality	
PI	90	
P2	25	
P3	20	
Pu	15	
PS	50	

Sum (Pavartity)=

The result returned by transaction

Ti(210) is wrong because of the incorrect summary problem i.e. the update to P1 by Transaction T2 was missed by

Transaction T1 hence returning meanest result.