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Name- Gaurav Singh

Reg No - 19BBS0026

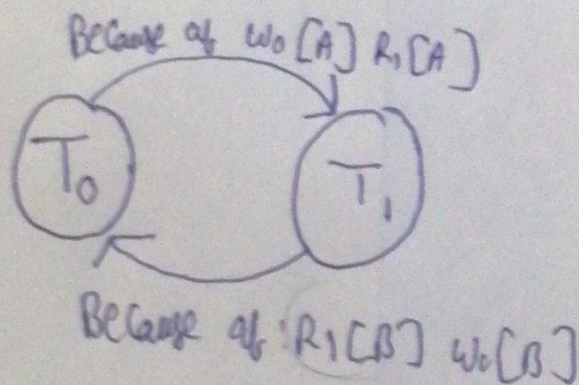
Set-A

Q1-

(a)

The schedule is not Confid serializable because the precedence graph contains a cycle. The graph has an edge $T_0 \rightarrow T_1$ because the schedule

contains $w_0[A] \rightarrow r_1[A]$. The graph has an edge $T_1 \rightarrow T_0$ because the schedule contains $r_1[B] \rightarrow w_0[B]$



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Multiple solutions are possible:-

Transaction T_0	Transaction T_1
$L_0[A]$	
$\gamma_0[A]$	$L_1[A] \rightarrow \text{blocks.}$
$W_0[A]$	
$L_0[B]$	
$\gamma_0[B]$	
$W_0[B]$	
$U_0[A]$	
$U_0[B]$	
C_0	$L_1[A] \rightarrow \text{granted}$
	$\gamma_1[A]$
	$L_1[B]$
	$\gamma_1[B]$
	$U_1[A]$
	$U_1[B]$
	C_1

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Transaction T ₀	Transaction T ₁
L ₀ [A]	
X ₀ [A]	
W ₀ [A]	
V ₀ [A]	
	L ₁ [A]
	X ₁ [A]
	V ₁ [A]
	L ₁ [B]
	X ₁ [B]
	V ₁ [B]
	C ₁
L ₀ [B]	
X ₀ [B]	
W ₀ [B]	
V ₀ [B]	
C ₀	