Transcation Management:-

1-

Transcation A	Time	Transcation B
~~read_item(X)~~	T_2	
$X := X+1$	T_2	
	T_3	read_item(X)
write_item(X)	T_4	
	T_5	Write_item(X)

Lost update problem because when transcation A read the first item so the value of 'X' will be incremented at time T_3. Transcation B will be overwritten its value so there will be a lost update in Transcation A.

2.

Transcation A	Time	Transcation B
	T_1	Read item X
	T_2	X := X-1
	T_3	write item(X)
read_item(X)	T_4	
write_item(X)	T_5	
	T_6	ROLL BACK

The dependency in this uncommitted dependency problem because when B write_item(X) & T_3 so at time T_4 Transca will be write item X. Transcation B roll back so it will go its original value at time T_1 & transcation A has wrong value at Time T_5 will be uncommit dependency.

3_

Transcation A	Time	Transcation B
	T_1	Read_item(x)
	T_2	X := x-1
	T_3	Write item(x)
Sum := 0	T_4	
Read-item(x)	T_5	
Sum - Sum + x	T_6	
Read-item(y)	T_7	
[illegible]	T_8	
	T_9	Read-item(y)
	T_{10}	Y := Y+1
	T_{11}	Write-item(y)

there will be inconsist anylsis problem occur where we write or read multiple transcation so in-consistency in the committed values will occurs at different times.

4-

Transcation A	Time	Transcation B
Read_item(x)	T_1	
X:=X+1	T_2	
	T_3	read_item(Y)
write_item(X)	T_4	
	T_5	write_item(Y)

In the following transcation there will be no problem because every transcation is independent to each other.