

Name: .....

**Question 1:**

Consider the given schedule  $S_1$  with transactions  $T_1$  and  $T_2$ ; if the value of  $X$  at the beginning of the transactions is 70, what will be the value of  $X$  at the end of the transactions? Also, find the problem with the given schedule.

Transaction T1	Transaction T2
<i>READ X</i> <i>X:=X - 20</i>  <i>WRITE X</i>	<i>READ X</i> <i>X:=X - 30</i>  <i>WRITE X</i>

**Question 2:**

Consider a schedule S with two transactions  $T_1$  and  $T_2$  as follows;

S: R1(x);R2(x);W1(y);W2(y);commit1;commit2;

Is the schedule S conflict serializable? Write the correct serial schedule  $S'$ .

**Solution:**

The given schedule S is as follows:

Instruction	$T_1$	$T_2$
1		
2		
3		
4		
5		
6		

The schedule  $S'$  is as follows:

Instruction	$T_1$	$T_2$