CSCI 301 – Exercise Solutions

Lecture #: _____   Team #: _____

Team members present: _____   _____

                       _____   _____

Part A – Biconditional Truth Table

P	Q	P => Q	Q => P	P <=> Q
T	T			
T	F			
F	T			
F	F			

Part B – Truth Table Exercise

Alfred is Innocent	Kurt is innocent	Rudolf is innocent	Alfred's testimony: Kurt is guilty and Rudolf is innocent	Kurt's testimony: If Alfred is guilty, then so is Rudolf.	Rudolf's testimony: I am innocent but at least one of the others is guilty.
A	K	R	$\sim K \wedge R$		
T	T	T			
T	T	F			
T	F	T			
F	T	T			
T	F	F			
F	T	F			
F	F	T			
F	F	F			