1. Which of the following correctly models a component of the Take-Grant model?		
	[] [X] []	$link(\mathbf{X}, \mathbf{Y}) = \mathbf{X}/g \in dom(\mathbf{Y}) \vee \mathbf{Y}/t \in dom(\mathbf{X})$ $link(\mathbf{X}, \mathbf{Y}) = \mathbf{Y}/g \in dom(\mathbf{X}) \vee \mathbf{X}/t \in dom(\mathbf{Y})$ $link(\mathbf{X}, \mathbf{Y}) = \mathbf{Y}/t \in dom(\mathbf{X}) \vee \mathbf{X}/t \in dom(\mathbf{Y})$ $link(\mathbf{X}, \mathbf{Y}) = \mathbf{Y}/g \in dom(\mathbf{X}) \vee \mathbf{X}/g \in dom(\mathbf{Y})$
2. Which of the following statements is not true?		
	[] [] [] [X]	SPM model does not allow deletion and destroy operations as HRU does SPM model subsumes multilevel security HRU model subsumes Take-grant model SPM subsumes Take-grant as well as HRU model
3. Which of the following statements about confidentiality models is incorrect?		
	[]	Confidentiality models are aimed at controlling flow of information Confidentiality models are more applicable in military than commercial environments
	[X]	Confidentiality models only address information flow that occurs because of transfer of rights Confidentiality models do not give primary importance to who can alter information
4. Explain <i>Separation of Duty</i> ? Does it refer to confidentiality or integrity requirements?		
Answer:		
Separation of Duty requires that different steps (tasks) of a critical function be carried out by different people.		
SoD refers to the integrity requirements, mainly in transaction oriented systems.		
5.	. Write the simple security and *property of the Bell-LaPadula Model. Use $l(s)$ and $l(o)$ to mean the security clearance and classification of the subject s and object o respectively.	
Answer: a. s can read o iff l(s) = l(o) & s has read permission over o b. s can write o iff l(o) = l(s) & s has write permission over o		