

## BI 358 Active Learning Q Lecture 1

1. What is *homeostasis* and *within what body compartment* is it maintained? What *level of body organization* maintains homeostasis? *Why* is *homeostasis* important?
2. What is the difference between *interstitium* and *plasma*? What do they have *in common*? Where do they *mingle* or *intermix*?
3. Trace the path of *cigarette smoke* from puff to brain identifying *all organs* and *tissues* along the way? What is the estimated *time frame*? Why is *ammonia* added to cigarettes by tobacco companies?
4. What is the *function of a receptor* in a simplified homeostatic model? Where is the *set point* maintained? When might *positive feedback* be used?
5. Where are *baroreceptors* located? What do baroreceptors do, that is, what is their *function*? When a human moves from supine or *seated to standing*, how do the baroreceptors *respond*? Where is the *set point for blood pressure* located? What *target organs* to compensate for a sudden change in pressure?