<u>Lecture 13: Active Learning Questions</u>

1. What does *ICS* represent as a mnemonic to help remember the *functions of the basal nuclei*? What *disease* involves a specific neurotransmitter in the *basal nuclei*? Identify the *neuro-transmitter* and 3 *characteristics* of the disease (use the opposite of the mnemonic!).

2. What are general classes of *target organs* of the *sympathetic* and *parasympathetic* branches of the autonomic nervous system? In a *relaxing, digestive* and *housekeeping state*, which branch is most active?

3. Why are *nerve* and *muscle* tissue types unique? What's the difference between an *electrical* and a *chemical synapse*?

4. What is *calcium* used for in the human body? List *4 functions*/uses below.

5. What do *black widow spider venom*, *botulism* toxin, *curare* and *Sarin* nerve gas have in common? What are their *unique effects* at molecular and cellular levels?