

Study Questions for lecture 5 assigned readings.

From Rosenzweig chapters 3-5:

1. Name the three important kinds of membrane potentials produced by neurons, the cellular location in which each is produced, and the basic ways in which they differ from one another.
2. Provide an account of the membrane events that occur when an action potential is produced.
3. List the sequence of events involved in chemical synaptic transmission.
4. Describe the EEG, and explain what it reflects, with examples.
5. Describe the distribution of dopaminergic pathways, receptors for dopamine, and some functional details of this system.
6. Give an overview of the functioning of the NMDA receptor, highlighting its novel features and functions.
7. Describe some of the major ways in which neural processes are affected by drugs.
8. What are some of the effects and general mechanisms of action of the major consciousness-altering drugs?
9. Hormones can have effects over tiny distances or large ones. Give an overview of the various categories of hormonal communication.
10. Summarize the four principle ways in which hormonal communication is different from communication between neurons.
11. Give an anatomical description of the pituitary gland and discuss its two major divisions.
12. Identify the hormones that are known to have effects on memory processes, and describe some of the general ways in which they have these effects.