

## 9.01 Study Questions

### Sessions 13-14 Lecture Questions

1. How is the hindbrain embryologically very similar to the spinal cord?
2. Describe two "routine maintenance functions" of the hindbrain.
3. Briefly indicate the critical involvement of the hindbrain in some of the most complex human behavior.
4. What is the meaning of the term "pons" and what is a major input and the major output of the cells of the pontine gray matter?
5. Contrast: the trigeminal nerve and the trigeminal lemniscus.
6. At the surface of the midbrain appear the "colliculi" or little hills: the anterior or superior colliculi and the posterior or inferior colliculi. With what sensory modalities do we usually associate the superior and the inferior colliculi?
7. Name a pathway that originates in the midbrain and descends to the spinal cord.
8. Two divisions of the diencephalon (the 'tweenbrain") usually considered to be the major divisions are the \_\_\_\_\_ and the \_\_\_\_\_. Briefly indicate a major function of each of these divisions.
9. The forebrain consists of diencephalon and telencephalon (endbrain). Comparative anatomists refer to the two major fiber bundles of the endbrain as the lateral forebrain bundle and the medial forebrain bundle. Name two major sources of axons in each of these two bundles.