

9.01 Study Questions

Lecture 32

- 1) What is meant by the “vestibular-like functions of vision”? A phenomenon related to this function is “optokinetic nystagmus”. What is that?
- 2) How many visual systems are there? What are some good criteria for specifying a “visual system”? Isn’t there really only one?
- 3) Give two examples of unconscious vision, in normal or brain-damaged animals or persons.
- 4) Give two examples of multiple parallel channels of information flow in sensory systems of the brain.
- 5) Describe how a receptive field of an inferotemporal cortex neuron could be built up by cascade specification. Be as specific as you can, starting at the retina.
- 6) What are recurrent connections in area 17, and how can the effects of such connections be seen in electrophysiological recording experiments?
- 7) Describe differences in “magnification” in the representations of the visual field and of the body surface in the neocortex. Would you expect such differences in subcortical areas also? Where?