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?