MICROSCOPIC ANATOMY QUIZ
October 8, 2003

DIRECTIONS: Each of the numbered items or incomplete statements is followed by answers or by completions of the statement. Select the ONE lettered answer or completion that is BEST in each case.

1. The neurons in a dorsal root ganglion and an autonomic ganglion are alike in that both:
   A. Are motor neurons
   B. Are pseudounipolar neurons
   C. Are sensory neurons
   D. Have axons that are surrounded by Schwann cells
   E. Have clefts of Schmidt-Lanterman associated with their dendrites

2. If you looked by electron microscopy at a skeletal muscle that had been stretched just beyond the point where it could generate tension when stimulated (i.e., just beyond the point where thick & thin filaments could interact), you should see that the:
   A. A bands were unusually long
   B. H bands were unusually long
   C. I bands were unusually short
   D. M lines were absent
   E. Z lines were absent

3. Smooth muscle cells are characterized by:
   A. Dense bodies (cytoplasmic densities)
   B. Myofibrils
   C. Peripheral nuclei
   D. Sarcomeres
   E. Tight junctions between the muscle cells

DIRECTIONS: Each of the numbered items or incomplete statements in this section is negatively phrased, as indicated by a capitalized word such as INCORRECT, FALSE, or EXCEPT. Select the ONE lettered answer or completion that is BEST in each case.

4. Which of the following IS NOT a normal component of an intercalated disk:
   A. Desmosome
   B. Fascia adherens
   C. Gap junction
   D. Tight junction

5. In a cross section through a peripheral nerve that is composed of several nerve fascicles, you might observe all of the following EXCEPT:
   A. Capillaries
   B. Epineurium
   C. Neuronal cell bodies
   D. Nuclei of Schwann cells
   E. Perineurium