

29. Figure 7-8 is a cross-sectional view of the spinal cord.
 (A) Identify the areas listed in the key choices by inserting the correct letters next to the appropriate leader lines on parts A and B of the figure.

Key Choices

- | | | |
|----------------------------|-------------------------|-----------------|
| A. Central canal | E. Dorsal root | I. Ventral horn |
| B. Columns of white matter | F. Dorsal root ganglion | J. Ventral root |
| C. Conus medullaris | G. Filum terminale | |
| D. Dorsal horn | H. Spinal nerve | |

(B) Color the lumbar bones of the vertebral column in figure B gold.

(C) On figure A, color the butterfly-shaped gray matter gray, and color the spinal nerves and roots yellow.

(D) Select different colors to identify the following structures and use them to color the figure.

● Pia mater

● Dura mater

○ Arachnoid mater

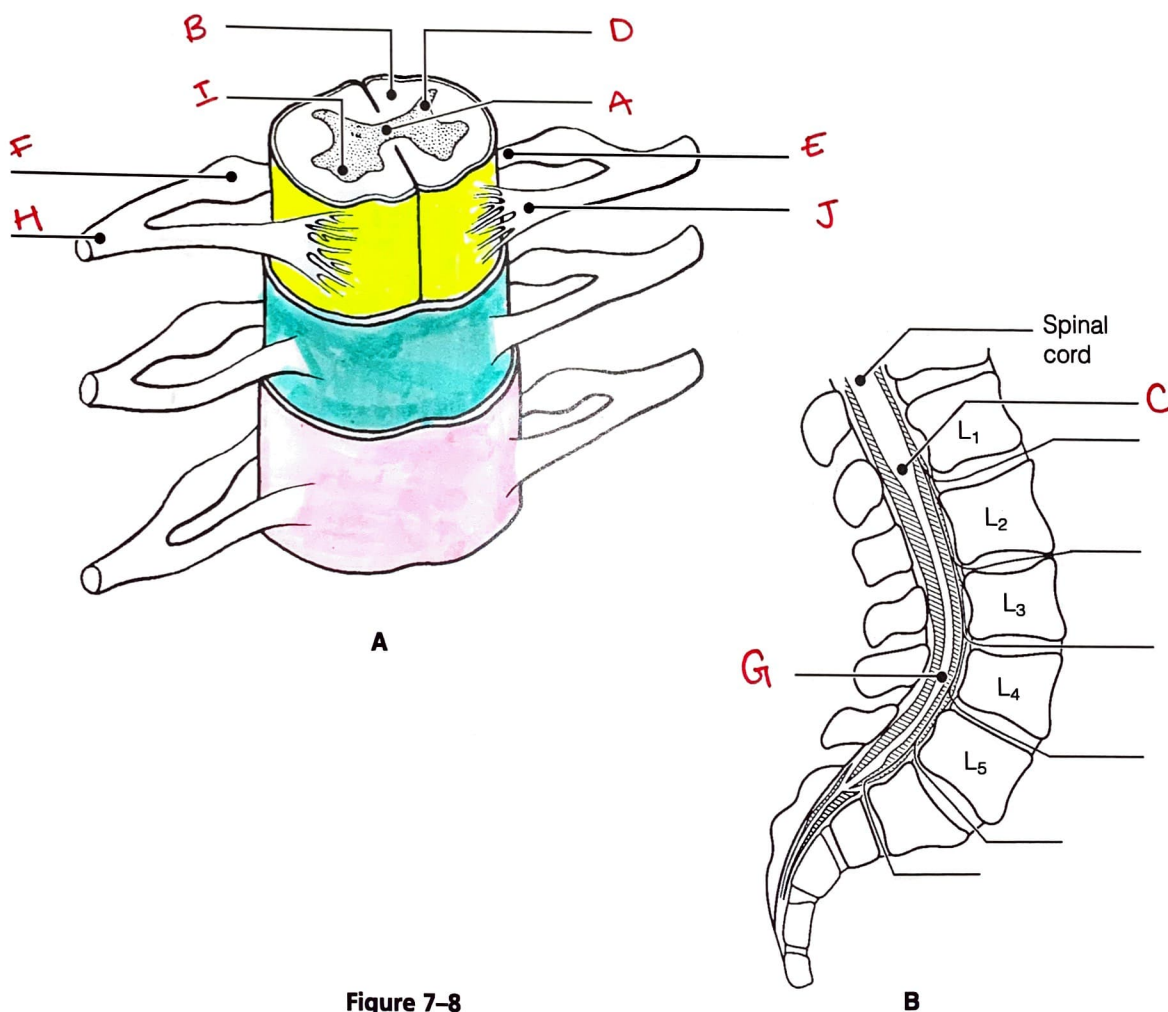


Figure 7-8

Cranial Nerves

33. The 12 pairs of cranial nerves are indicated by leader lines in Figure 7-11.
 (A) Label each by name and Roman numeral on the figure.
 (B) Color each nerve with a different color.

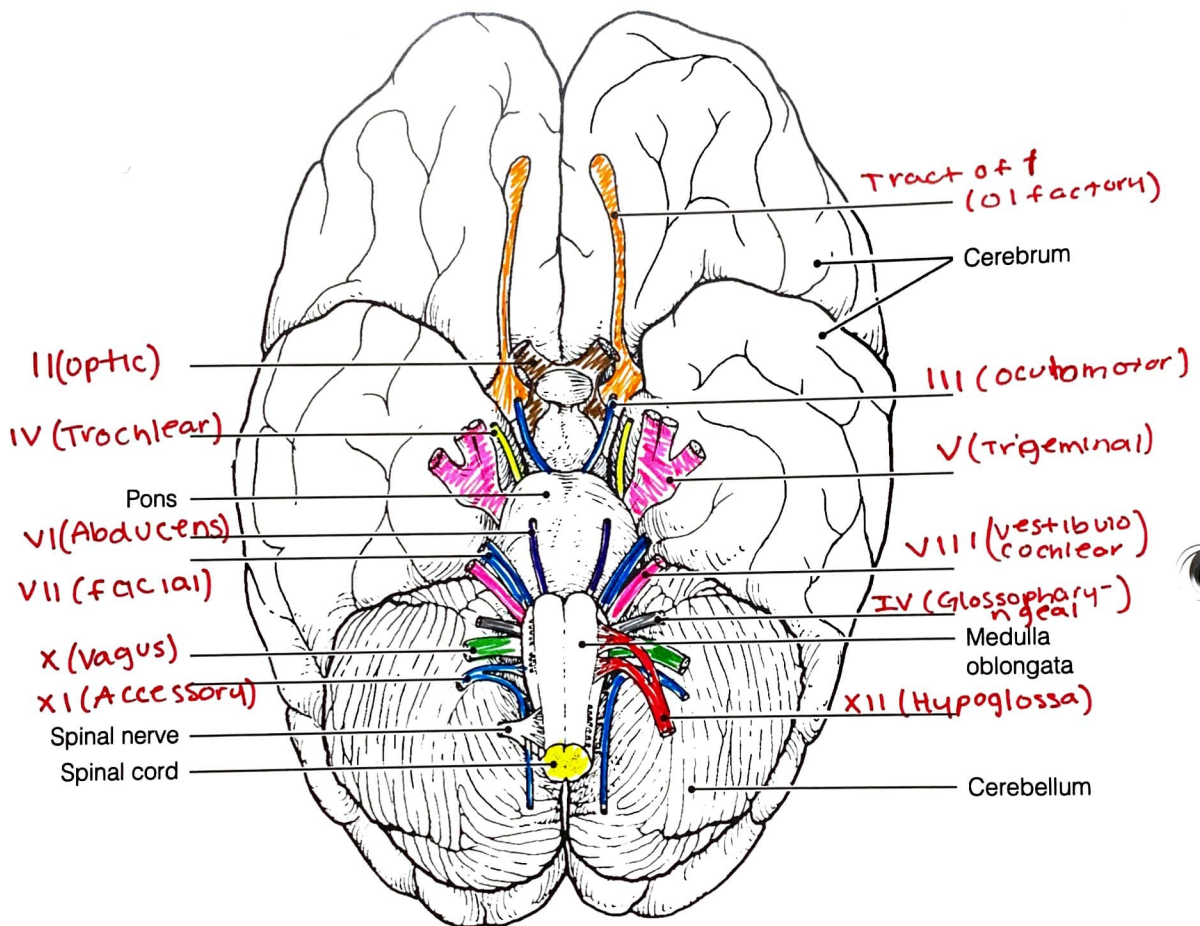


Figure 7-11

36. Figure 7-12 is an anterior view of the principal nerves arising from the brachial plexus. Select five different colors and color the coding circles and the nerves listed below. Also, label each nerve by inserting its name at the appropriate leader line.

- Axillary nerve
- Musculocutaneous nerve
- Median nerve
- Radial nerve
- Ulnar nerve

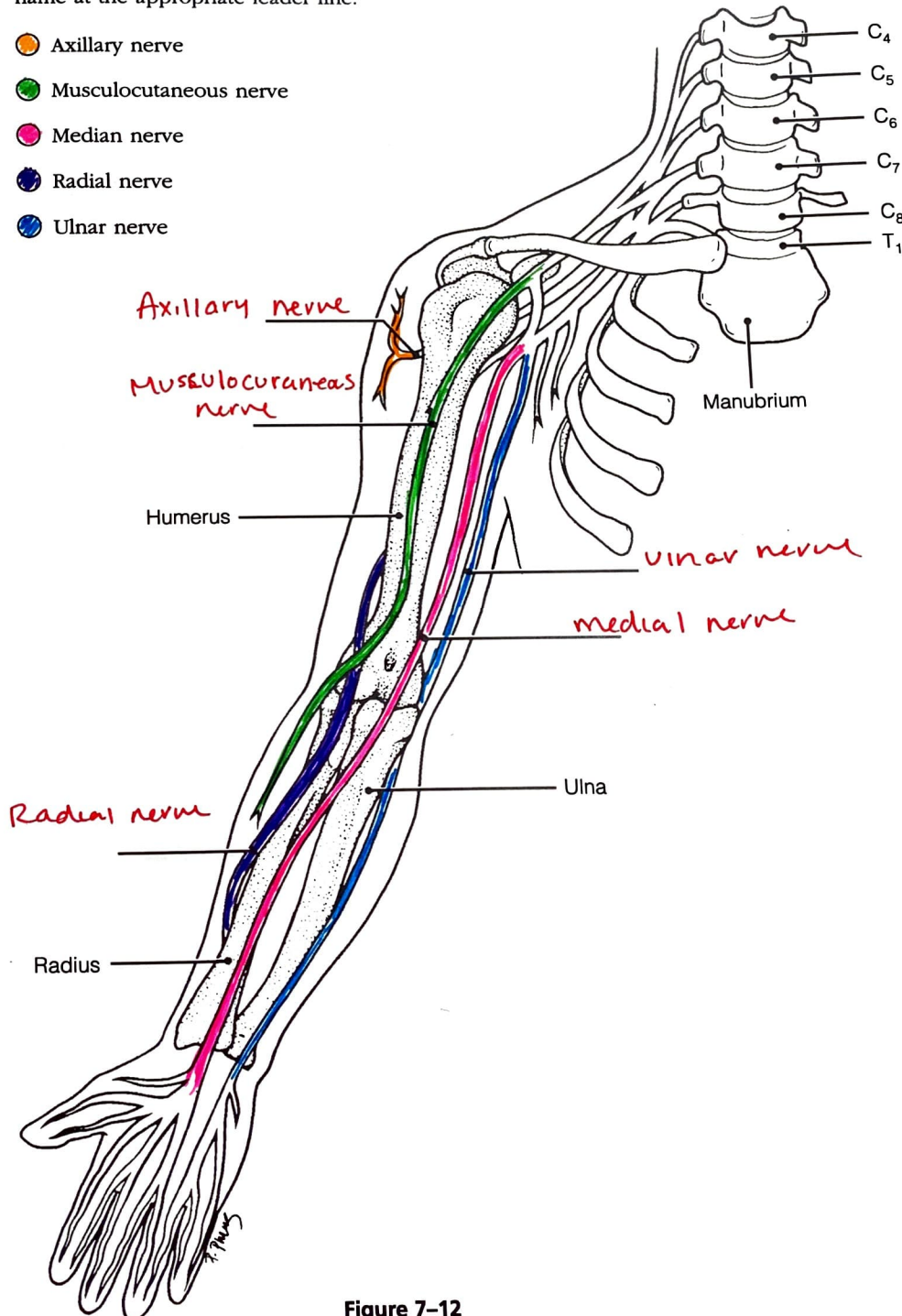


Figure 7-12

37. Name the major nerves that serve the following body areas. Insert your responses in the answer blanks.

Cervical plexus 1. Neck and shoulders (plexus only)

Lumbar plexus 2. Abdominal wall (plexus only)

Femoral nerve 3. Anterior thigh

Phrenic nerve 4. Diaphragm

Femoral cutaneous 5. Posterior thigh

Tibial and common fibular nerve 6. Leg and foot (two)

Autonomic Nervous System (ANS)

38. Identify, by color coding and coloring, the following structures in Figure 7-13, which depicts the major anatomical differences between the somatic and autonomic motor divisions of the PNS. Also identify by labeling all structures provided with leader lines.

● Somatic motor neuron

● ANS preganglionic neuron

● ANS ganglionic neuron

● Autonomic ganglion

● Gray matter of spinal cord (CNS)

● Effector of the somatic motor neuron

● Effector of the autonomic motor neuron

● Myelin sheath

● White matter of spinal cord (CNS)

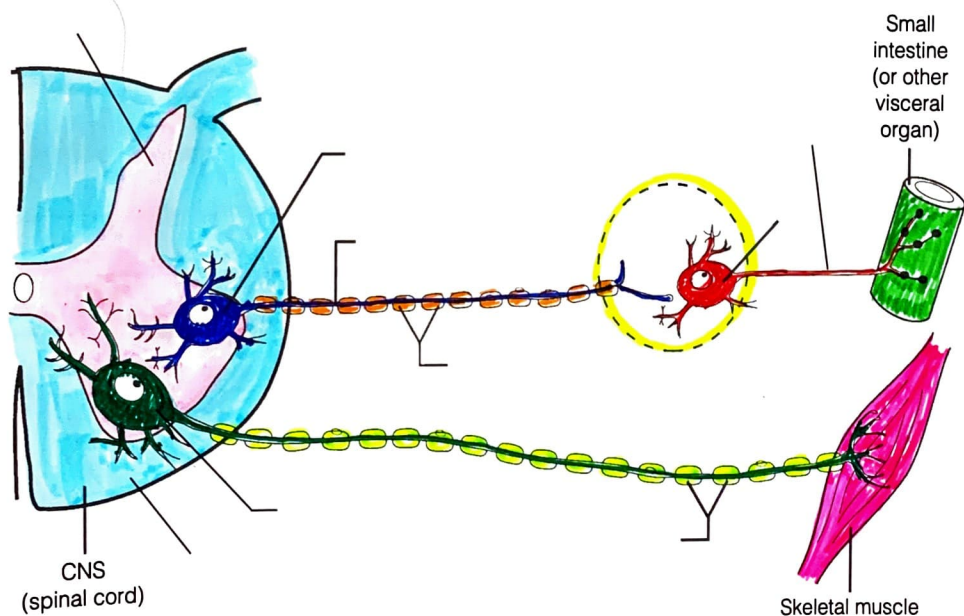


Figure 7-13