

# 52 anatomy and physiology coloring workbook answers

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### 52 Anatomy and Physiology Coloring Workbook Answers

#### 1. Identify the major regions of the skeletal system.

- Answer: Axial (skull, vertebral column, rib cage) and appendicular (upper and lower limbs) regions

#### 2. Describe the structure and function of a bone cell.

- Answer: Osteocytes are mature bone cells that maintain bone matrix, regulate nutrient exchange, and repair bone damage.

#### 3. Explain the process of bone growth and remodeling.

- Answer: Bone growth involves the addition of new bone tissue at the epiphyseal plates, while bone remodeling involves the breakdown and replacement of old bone by new bone.

#### 4. Describe the major types of muscle tissue.

- Answer: Skeletal (attached to bones for movement), smooth (lines organs and blood vessels for involuntary actions), and cardiac (found in the heart for rhythmic contractions).

#### 5. Explain the nervous system's role in controlling body functions.

- Answer: The nervous system integrates sensory information, controls motor responses, and regulates various body processes through the central (brain and spinal cord) and peripheral (nerves) nervous systems.

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