

# Answer Key for Study Guide for Memmler's Structure and Function of the Human Body, 11th Edition

## Chapter 1

### Organization of the Human Body

#### Addressing the Learning Objectives

##### Exercise 1-1

1. the study of body structure.
2. the study of body function.
3. the study of disease.

##### Exercise 1-2

1. molecule
2. cell
3. tissue
4. organ
5. organ system
6. body

##### Exercise 1-3: Levels of Organization (Text Fig. 1-1)

1. nervous system
2. cardiovascular system
3. digestive system
4. integumentary system
5. urinary system
6. skeletal system
7. respiratory system
8. lymphatic system

##### Exercise 1-4

1. homeostasis
2. negative feedback
3. sensor
4. control centre
5. effector
6. pancreas
7. body cells
8. insulin

##### Exercise 1-5

1. EC
2. IC
3. ECE

1. metabolism
2. anabolism
3. catabolism
4. ATP

##### Exercise 1-7: Directional Terms (Text Fig. 1-6)

1. superior
2. inferior
3. anterior
4. posterior
5. proximal
6. distal
7. medial
8. lateral

2. distal
3. lateral
4. proximal
5. posterior

##### Exercise 1-9: Planes of Division

(Text Fig. 1-7)

1. frontal (coronal) plane
2. sagittal plane
3. transverse (horizontal)

##### Exercise 1-10: Lateral View of

##### Body Cavities (Text Fig. 1-10)

1. dorsal cavity
2. ventral cavity
3. cranial cavity
4. spinal cavity (canal)
5. thoracic cavity
6. diaphragm
7. abdominal cavity
8. pelvic cavity
9. abdominopelvic cavity

##### Exercise 1-11: Regions of the

##### Abdomen (Text Fig. 1-12)

1. right hypochondriac region
2. epigastric region
3. left hypochondriac region
4. right lumbar region
5. umbilical region
6. left lumbar region
7. right iliac (inguinal) region
8. hypogastric region
9. left iliac (inguinal) region

##### Exercise 1-12: Quadrants of the Abdomen (Text Fig. 1-13)

1. right upper quadrant
2. left upper quadrant
3. right lower quadrant
4. left lower quadrant

##### Exercise 1-13

Common Name	Anatomic Adjective
Thigh	Femoral
Inner elbow	Antecubital
Crook	Inguinal
Arm	Brachial
Forearm	Antebrachial
Armpit	Axillary
Ankle	Tarsal
Shoulder blade	Scapular
Shoulder	Acromial

##### Exercise 1-14

- a. left upper quadrant
- b. antecubital
- c. abdominopelvic or abdominal
- d. left lumbar or umbilical
- e. inferiorly

##### Exercise 1-15

1. cutting, incision of; anatomy
2. stand, stoppage, constancy; homeostasis
3. physiol; physiology
4. same; homeostasis
5. dis-; dissect
6. cata-; catabolism
7. ana-; anabolism
8. study of; radiology

##### Making the Connections

1. dorsal cavity
2. ventral cavity
3. cranial cavity
4. abdominal cavity
5. diaphragm
6. pelvic cavity
7. hypochondriac region
8. iliac region
9. umbilical region
10. hypogastric region
11. lumbar region

##### Testing Your Knowledge

##### Building Understanding

##### I. Multiple Choice

1. a: C11
2. c: C9
3. d: C6
4. a: C5
5. c: C4
6. b: C10
7. c: C1 & a: C6
9. c: C6

##### II. Completion Exercise

##### Group A: General Terminology

1. forward
2. intracellular fluid
3. ATP
4. negative feedback
5. metabolism
6. adenosine triphosphate

Learning Objectives 4, 5, 6, 7

##### Group B: Body Cavities, Directional

##### Terms, and Planes of Division

1. proximal
2. lateral
3. quadrant
4. cranial cavity
5. sagittal plane
6. abdominal cavity
7. epigastric region
8. mediastinum
9. abdominopelvic cavity

Learning Objectives 7, 8, 9, 10

##### Group C: Body Regions

# Memmler Study Guide Answers Sensory System

**Joacim Rocklöv**



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