

# 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) plane

##### 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

##### Group B: Body Cavities, Directional Terms, and Planes of Division

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

##### Group C: Body Regions

# Memmler Study Guide Answers

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## **Memmler Study Guide Answers:**

The Top Books of the Year Memmler Study Guide Answers The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year. Memmler Study Guide Answers : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Memmler Study Guide Answers : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Memmler Study Guide Answers : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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