

# Answer Key for Study Guide for Memmler's Structure and Function of the Human Body, 10th Edition

## Chapter 1

### Organization of the Human Body

#### Addressing the Learning Outcomes

##### Exercise 1-1

1. cell walls of body tissues
2. cell walls of body tissues

##### Exercise 1-2

1. nucleus
2. cell
3. cytoplasm
4. organelle
5. organ system
6. tissue

##### Exercise 1-3

1. cell wall, nucleus
2. cytoplasm, cell membrane
3. organelle, nucleus
4. cell membrane, cytoplasm
5. cellular organelle
6. cellular organelle
7. organelle, nucleus
8. cytoplasm, nucleus

##### Exercise 1-4

1. mitochondrion
2. chloroplast
3. centrioles
4. Golgi

##### Exercise 1-5

1. nucleus, mitochondrion
2. cytoplasm
3. cell wall
4. chloroplast

##### Exercise 1-6

1. A
2. B
3. C

##### Exercise 1-7

1. nucleus
2. cytoplasm
3. membrane
4. cytoplasm
5. cytoplasm
6. chloroplast
7. nucleus
8. nucleus

##### Exercise 1-8

1. nucleus
2. chloroplast
3. nucleus
4. cytoplasm
5. cytoplasm

##### Exercise 1-9

1. dorsal (superior) plane
2. sagittal plane
3. coronal (inferior-superior) plane

##### Exercise 1-10

1. dorsal cavity
2. ventral cavity
3. cranial cavity (skull)
4. thoracic cavity
5. abdominopelvic cavity
6. thoracic cavity
7. pleural cavity
8. abdominal cavity
9. peritoneal cavity

##### Exercise 1-11

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 hypogastric region
8. hypogastric region
9. left iliac hypogastric region

##### Exercise 1-12

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

##### Exercise 1-13

Commonly Used	Scientific Alternative
Upper	Superior
Lower	Inferior
Front	Anterior
Back	Posterior
Inside	Internal
Outside	External
Upper	Cephalic
Lower	Caudal
Abdominopelvic	Cavities
Thoracic	Thorax

##### Exercise 1-14

1. left upper quadrant
2. epigastric
3. abdominopelvic or abdominal
4. left lumbar or abdominal
5. umbilical

##### Exercise 1-15

1. anatomy, histology, physiology
2. anatomy, histology, physiology, immunology
3. physiology, immunology

4. immunology
5. cell biology
6. cell – cytoplasm
7. cell – cytoplasm
8. study of pathology

#### Matching the Connections

1. dorsal cavity
2. ventral cavity
3. cranial cavity
4. abdominopelvic
5. thoracic
6. pleural cavity
7. superior thoracic region
8. iliac region
9. umbilical region
10. hypogastric region
11. lumbar region

#### Testing Your Knowledge

##### Building Understanding

###### A. Multiple Choice

1. a, d, f, i
2. a, d, f, i
3. b, c, e, g, h, j
4. a, d, f, i
5. a, d, f, i
6. b, c, d, f, i
7. a, d, f, i
8. a, d, f, i

###### B. Completion Exercise

###### Case 1: a. Central Terminology

1. superior
2. inferior
3. anterior
4. posterior
5. epigastric
6. umbilical
7. hypogastric
8. abdominal cavity
9. Learning Outcomes 1, 4, 6, 7

###### Case 2: Body Cavities Divided

###### Anterior and Posterior of Thorax

1. pleural
2. dorsal
3. superior
4. ventral cavity
5. right of pleura
6. abdominopelvic cavity
7. epigastric region
8. umbilical
9. left hypogastric region
10. Learning Outcomes 1, 4, 6, 7, 8

###### Case 3: Body Regions

1. pleural
2. dorsal
3. superior
4. iliac
5. umbilical
6. Learning Outcomes 1, 4

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**N Colangelo**



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the crushed garlic and cook for 1 min more tip in the carrots stock and thyme then season and bring to the boil lower to a  
simmer and cook covered for 25 mins until the carrots are softened step 2

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