

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: units of body structure
2. tissue: made of body functions

Exercise 1-2

1. nucleus
2. cell
3. cytoplasm
4. organelle
5. rough endoplasmic reticulum
6. Golgi

Exercise 1-3

1. ventral body cavity
2. ventroperitoneal cavity
3. diaphragm divides
4. retroperitoneal cavity
5. anterior cavity
6. posterior cavity
7. supraceliac region
8. infraceliac region

Exercise 1-4

1. endosteum
2. cartilage
3. periosteum
4. JGP

Exercise 1-5

1. fibrocyte
2. adipocyte: fat cells
3. osteocyte
4. cartilage
5. nerve cell

Exercise 1-6

1. ECG
2. X-ray
3. MRI

Exercise 1-7

1. anatomy
2. histology
3. embryology
4. physiology
5. pathology
6. clinical
7. medical
8. dental

Exercise 1-8

1. anatomy
2. clinical
3. dental
4. physiology
5. pathology

Exercise 1-9

1. dorsal: backside plane
2. sagittal plane
3. transverse: horizontal plane

Exercise 1-10

1. dorsal cavity
2. ventral cavity
3. spinal cavity: ventral
4. cranial cavity
5. thoracic cavity
6. abdominal cavity
7. pelvic cavity
8. retroperitoneal cavity
9. pelvic 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. epigastric 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	Anatomic Direction
Superior	Forward
Inferior	Backward
Anterior	Forward
Posterior	Backward
Medial	Toward midline
Lateral	Away from
Proximal	Nearer
Distal	Farther
Superficial	Superior
Deep	Inferior

Exercise 1-14

- a. left upper quadrant
- b. epigastric
- c. abdominopelvic or abdominal
- d. left lumbar or posterior
- e. inferiorly

Exercise 1-15

1. anatomy: structure of anatomy
2. clinical: diagnosis, treatment, management
3. physiology: physiology

4. gross anatomy
5. gross dissection
6. gross dissection
7. gross dissection
8. study of pathology

Making the Connections

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

Testing Your Knowledge

Building Understanding

A. Multiple Choice

1. a. 15%
2. a. 10%
3. b. 15%
4. a. 10%
5. a. 15%
6. b. 10%
7. a. 15%
8. a. 10%

B. Completion Exercise

Case 1-1: Central Terminology

1. inferior
2. retroperitoneal cavity
3. JGP
4. superior quadrant
5. umbilicus
6. abdominopelvic region
7. Learning Outcomes 4, 5, 6, 7

Case 1-2: Body Cavity Orientation

Anterior and Posterior of the Cavity

1. posterior
2. dorsal
3. superior
4. anterior cavity
5. right of patient
6. abdominopelvic cavity
7. epigastric region
8. umbilicus
9. left hypochondriac region
10. Learning Outcomes 7, 8, 9, 10

Case 1-3: Study Diagrams

1. posterior
2. sagittal
3. superficial
4. iliac
5. umbilical
6. Learning Outcome 11

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