

# 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
- 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

**Peipei Pang**



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web the gas constant  $r = 8.314 \text{ J mole}^{-1} \text{ K}^{-1}$  for freon 404a  $r = 0.0852 \text{ kJ kg}^{-1} \text{ K}^{-1}$  one atmosphere 101.325 kpa reference point for enthalpy and entropy  $h_f = 200 \text{ kJ kg}^{-1}$  at  $0^\circ \text{C}$   $s_f = 1 \text{ kJ kg}^{-1} \text{ K}^{-1}$  at  $0^\circ \text{C}$  freon 404a refrigerant r

**appendix b log p h diagrams for refrigerants swep** - May 12 2023

web the log p h diagrams on this page can be retrieved from the coolpack program which can be downloaded here this page shows log p h diagrams for the following refrigerants r22 r134a r404a r407c r410a r717 ammonia r744 carbon dioxide r507 r22 r134a r404a r407c r410a r717 r744 r507 back next

*enthalpy diagram for r744 r404a and r290 refrigerants* - Feb 09 2023

web context 1 schematic diagram of the cycle and the corresponding pressure enthalpy diagrams for refrigerants r744 r404a and r290 at an evaporation temperature of  $210^\circ \text{C}$  and a

**100 40 0 30 0 20 0 10 0 0 10 100 climalifé 50 404a 10 20 30** - Jan 28 2022

web 404a 10 20 30 40 200 200 20 220 diagramme enthalpique r 404a 500 500 30 1k m3 unités units bar 600 30 240 40 260 300 50 400 10 60 120 160 180 460 480 h d t ooc kJ kg s kJ kg k kg m 3 références h 200kJ kg 1kJ kg k 580 600 140 280 300 320 340 360 380 400 420 440 enthalpie massique specific enthalpy kJ kg 520 540 560

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web temperature and pressure chart for refrigerants r22 r410a r12 r134a r401a r409a r502 r404a r507a r408a and r402a engineering toolbox resources tools and basic information for engineering and design of technical applications

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web genetron 404a hfc 404a is a non ozone depleting compound designed to serve as a long term alternative to genetron 502 cfc 502 and genetron 22 hcfc 22 in low and medium temperature commercial refrigeration applications