

LABORATORY EXERCISE 1

Body Organization and Terminology

Ex. 1

BODY CAVITIES AND MEMBRANES:

Procedure:

1. Review the sections on “Body cavities”, “Thoracic and Abdominopelvic Membranes” and “Planes and Terminology” in your textbook.
2. Locate the following features on the diagrams in your textbook and on the torso models or skeletons in your lab.

Posterior cavity

 Cranial cavity

 Vertebral canal

Anterior cavity

Thoracic cavity

Abdominopelvic cavity

 Pelvic cavity

 Abdominal

 Parietal peritoneum

 Visceral peritoneum

 Peritoneal cavity

Diaphragm

Mediastinum

Oral cavity

Nasal cavity

Orbital cavity

Thoracic cavity

 Parietal pleura

 Visceral pleura

 Pleural cavity

 Visceral pericardium

 Parietal pericardium

MATCH THE BODY CAVITIES IN COLUMN A WITH THE ORGANS CONTAINED IN THOSE CAVITIES IN COLUMN B. PLACE THE LETTER OF YOUR CHOICE IN THE SPACE PROVIDED.

Column A

- A. abdominal cavity
- B. cranial cavity
- C. thoracic cavity
- D. oral cavity
- E. orbital cavity
- F. pelvic cavity
- G. vertebral canal
- H. outside any cavity

Column B

- _____ 1. liver
- _____ 2. lungs
- _____ 3. spleen
- _____ 4. stomach
- _____ 5. brain
- _____ 6. teeth
- _____ 7. gallbladder
- _____ 8. trachea
- _____ 9. urinary bladder
- _____ 10. eyes
- _____ 11. spinal cord
- _____ 12. rectum
- _____ 13. kidney
- _____ 14. heart
- _____ 15. mediastinum

COMPLETE THE FOLLOWING STATEMENTS:

1. The membrane on the surface of the lung is called the _____.
2. The membrane on the surface of the heart is called the _____.
3. The membrane that lines the wall of the abdominopelvic cavity is called the _____.
4. The membrane on the surface of the stomach (in the abdominal cavity) is called the _____.
5. The thin watery fluid that occurs between the pleural membranes is called _____.
6. Epicardium is another name for _____.
7. The region between the lungs that separates the thoracic cavity into two compartments is called the _____.
8. The thin muscular structure that separates the thoracic and abdominopelvic cavities is called the _____.

MATCH THE ORGAN SYSTEMS IN COLUMN A WITH THE GENERAL FUNCTIONS IN COLUMN B.

Column A:

- A. cardiovascular system
- B. digestive system
- C. endocrine system
- D. integumentary system
- E. lymphatic system
- F. muscular system
- G. nervous system
- H. reproductive system(female)
- I. reproductive system (male)
- J. respiratory system
- K. skeletal system
- L. urinary system

Column B

- _____ 1. secretes hormones
- _____ 2. provides outer body covering
- _____ 3. produces new organism
- _____ 4. stimulates muscles to contract
- _____ 5. provides framework for soft tissues
- _____ 6. exchanges gases between air and blood
- _____ 7. produces blood cells
- _____ 8. transports excess fluid from tissues to blood
- _____ 9. provides movement and maintains posture
- _____ 10. transports liquid wastes to the outside
- _____ 11. removes liquid and wastes from blood
- _____ 12. interprets information from sensory units
- _____ 13. converts food molecules into forms that are absorbed
- _____ 14. transports gases between lungs and body cells

MATCH THE ORGAN SYSTEMS IN COLUMN A WITH THE ORGANS IN COLUMN B.

Column A:

- M. cardiovascular system
- N. digestive system
- O. endocrine system
- P. integumentary system
- Q. lymphatic system
- R. muscular system
- S. nervous system
- T. reproductive system(female)
- U. reproductive system (male)
- V. respiratory system
- W. skeletal system
- X. urinary system

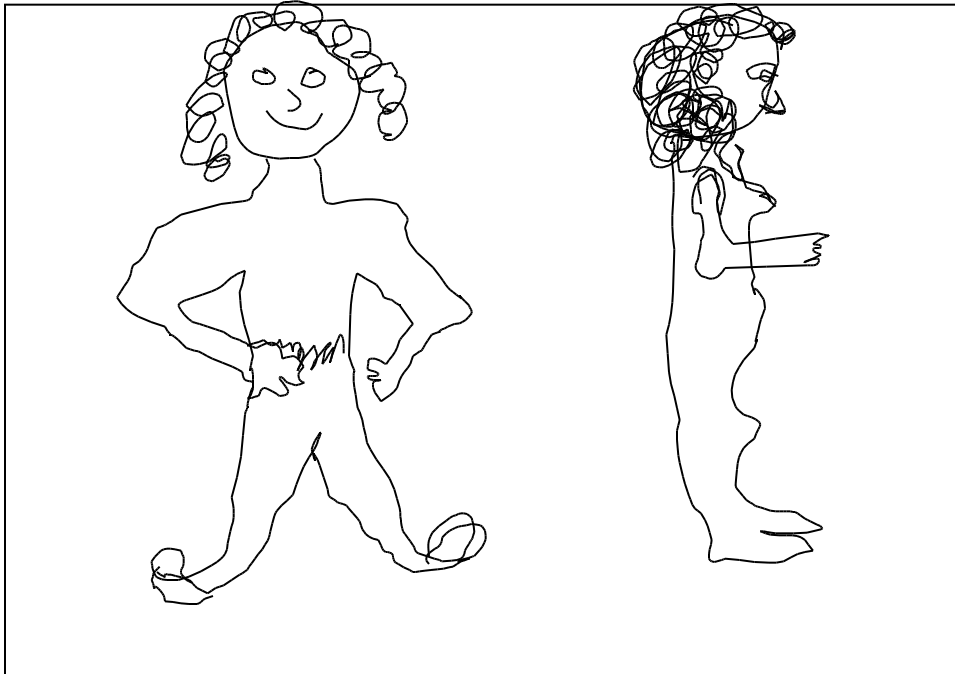
Column B:

- _____ 1. adrenal glands
- _____ 2. arteries
- _____ 3. brain
- _____ 4. gallbladder
- _____ 5. heart
- _____ 6. kidneys
- _____ 7. larynx
- _____ 8. ligaments
- _____ 9. liver
- _____ 10. lungs
- _____ 11. ovaries
- _____ 12. pancreas
- _____ 13. parathyroid glands
- _____ 14. prostate gland
- _____ 15. salivary glands
- _____ 16. skin
- _____ 17. spleen
- _____ 18. spinal cord
- _____ 19. testes
- _____ 20. thymus gland
- _____ 21. trachea
- _____ 22. uterus
- _____ 23. ureters
- _____ 24. urethra
- _____ 25. vagina

INDICATE EACH OF THE CORRECT TERMS FROM THE PAIRS BELOW BY DRAWING A CIRCLE AROUND THE CORRECT TERM.

1. The mouth is **superior** /**inferior** to the nose.
3. The stomach is **superior**/**inferior** to the diaphragm.
4. The trachea is **anterior**/**posterior** to the spinal cord.
5. The larynx is **anterior**/**posterior** to the esophagus.
6. The heart is **medial**/**lateral** to the lungs.
7. The kidneys are **superior**/**inferior** to the adrenal glands.
8. The hand is **proximal**/**distal** to the elbow.
9. The knee is **proximal**/**distal** to the ankle.
10. Blood in **superficial**/**deep** blood vessels gives color to the skin.
11. A **peripheral**/**systemic** nerve passes from the spinal cord into the leg.
12. The spleen and gallbladder are **internal**/**external**.
13. The dermis is the **superficial**/**deep** layer of the skin.

WRITE THE TERMS FOR THE BODY PLANES ON THE LINES BELOW AND THEN ON THE DRAWING BELOW, INDICATE THE CORRECT PLANES OF THE BODY.



A.

D.

B.

E.

C.

F.

MATCH THE STRUCTURES IN COLUMN A WITH THEIR GENERAL LOCATIONS IN COLUMN B.

Column A

- A. axillary lymph nodes
- B. brachial artery
- C. calcaneal tendon
- D. costal cartilage
- E. cranial nerves
- F. frontal sinus
- G. inguinal canal
- H. lumbar vertebrae
- I. mammary gland
- J. mental foramen
- K. pectoral girdle
- L. popliteal vein
- M. sternal angle

- _____ 1. ribs
- _____ 2. forehead
- _____ 3. armpit
- _____ 4. upper arm
- _____ 5. breasts
- _____ 6. middle of thorax
- _____ 7. chest
- _____ 8. chin
- _____ 9. behind knee
- _____ 10. surrounding brain
- _____ 11. lower back
- _____ 12. abdominal wall near thigh
- _____ 13. heel

Column B

MATCH THE BODY REGIONS IN COLUMN A WITH THE LOCATIONS IN COLUMN B. PLACE THE LETTER OF YOUR CHOICE IN THE SPACE PROVIDED

Column A

- A. antebrachium
- B. antecubital
- C. buccal
- D. celiac
- E. cephalic
- F. cervical
- G. crural
- H. cubital
- I. dorsum
- J. genital
- K. gluteal
- L. occipital
- M. otic
- N. palmar
- O. pedal
- P. pelvic
- Q. perineal
- R. plantar
- S. umbilical
- T. groin

Column B

- _____ 1. abdomen
- _____ 2. reproductive organ
- _____ 3. elbow
- _____ 4. buttocks
- _____ 5. forearm
- _____ 6. back
- _____ 7. neck
- _____ 8. mouth or inner cheek
- _____ 9. leg
- _____ 10. head
- _____ 11. space in front of elbow
- _____ 12. pelvis
- _____ 13. ear
- _____ 14. between anus and reproductive organs
- _____ 15. sole
- _____ 16. navel
- _____ 17. foot
- _____ 18. back of head
- _____ 19. palm
- _____ 20. front medial surface of upper thigh