

Lab 5: Urogenital & Skeletal-Muscular Systems

I. URINARY SYSTEM

GOALS

You should be able to.....

- ★ Describe the role of kidneys in the urinary system.
- ★ Identify the parts of a sheep kidney.
- ★ Locate and state the functions of the urinary system organs of the fetal pig.
- ★ Trace the path of urine from its formation to its removal from the body.
- ★ Compare and contrast the urinary systems/ path of urine in males & females.

Sheep Kidney

- ☐ p. 222: Read & use diagram to locate the following parts:
 - ✓ renal cortex
 - ✓ renal medulla
 - ✓ renal pelvis
 - ✓ renal vein & renal artery
 - ✓ ureter

Fetal Pig

- ☐ pp. 199-201: Read & become familiar with diagrams. *NOTE: We will not cut open kidneys.*
- ☐ Locate the following structures on both male & female pigs:
 - ✓ kidneys
 - ✓ ureter
 - ✓ urethra
 - ✓ urinary bladder

II. REPRODUCTIVE SYSTEM

GOALS

You should be able to.....

- ★ Locate and state the functions of male & female reproductive organs in the fetal pigs.
- ★ Trace the path of sperm from production to ejaculation.

- ☐ pp. 202-206: Read introductions/ use diagrams to locate & identify functions for the following:

MALE:

- ✓ testes (sing. testis)
- ✓ epididymides (sing. epididymis)
- ✓ vasa deferentia (sing. vas deferens)
- ✓ urethra
- ✓ bulbourethral glands
- ✓ penis
- ✓ urogenital opening

FEMALE:

- ✓ ovaries
- ✓ oviducts
- ✓ uterine horns
- ✓ uterine body
- ✓ vagina

- ☐ **REVIEW:** p. 214 #1-14 & #17, 18

III. MUSCULOSKELETAL SYSTEM

GOALS:

You should be able to.....

- ★ **Locate and identify the functions of the tissues that make up a long bone.**
- ★ **Locate and identify the bones of a human skeleton.**
- ★ **Locate and identify selected muscles.**
- ★ **Give examples of antagonistic pairs of muscles.**

KEY TERMS:

- | | |
|------------------------|-------------|
| ✓ origin | ✓ flexion |
| ✓ insertion | ✓ extension |
| ✓ action of the muscle | ✓ adduction |
| ✓ antagonistic pairs | ✓ abduction |
| ✓ tendon | |

Introduction

- ❑ p. 249: READ introduction and view Fig. 19.1

Long Bone

- ❑ pp. 250-251: Use diagram & reading to locate/ identify functions for:
 - ✓ periosteum
 - ✓ medullary cavity
 - ✓ compact bone
 - ✓ yellow bone marrow
 - ✓ spongy bone
 - ✓ red bone marrow

Human Skeleton

- ❑ pp. 253-255: Use diagram & procedure to identify:

✓ skull	✓ pelvis
✓ clavicle	✓ femur
✓ scapula	✓ patella
✓ sternum	✓ tibia
✓ ribs	✓ fibula
✓ humerus	✓ tarsals
✓ radius	✓ metatarsals
✓ ulna	✓ phalanges
✓ carpals	✓ vertebral column
✓ metacarpals	✓ sacrum
✓ phalanges	✓ coccyx

Skeletal Muscles (Muscle Man)

- ❑ pp. 255-257: Use diagram/ reading to locate & identify functions of:

✓ Pectoralis major	✓ Deltoid
✓ Biceps brachii	✓ Triceps brachii
✓ Quadriceps femoris group	✓ Hamstring group
✓ Tibialis anterior	✓ Gastrocnemius
✓ Trapezius	
- ❑ p. 258 & p. C57: Use reading/diagrams on p. 258 to help you fill out chart on p. C57
- ❑ **REVIEW:** p. 262 #2, 4, 5, 7, 8, 12, 13, 15

LAB PRACTICAL REVIEW:

***Use any remaining time to review organs of neck, thoracic cavity, abdominal cavity; heart & blood vessels!!**

OPEN LAB: Mon & Wed 3:00-5:00 pm

