

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

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

Skeletal Muscles (Muscle Man)

- ❑ pp. 255-257: Use diagram/ reading to locate & identify functions of:
 - ✓ Pectoralis major
 - ✓ Biceps brachii
 - ✓ Quadriceps femoris group
 - ✓ Tibialis anterior
 - ✓ Trapezius
 - ✓ Deltoid
 - ✓ Triceps brachii
 - ✓ Hamstring group
 - ✓ Gastrocnemius
- ❑ 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:

Nancy: Tues. & Wed. 6:00-7:30 pm

Hannah Olshan: Mon & Wed 3:00-5:00 pm

Anna Spaulding:

Charles Sontag:

Practical Exam #1 Next Week Covering Labs 1-5
(Make ups can only be given the week of March 5-8)
25 stations (each worth 2 points)
2 questions at each station

Make sure you visit the lab webpage for lab handouts, images from the 5 labs and practice practicals.

