**LAB SESSION 11**

**All terminologies, concepts, and figures within each exercise are required (unless otherwise specified).**

**EXERCISE 18: SPECIAL SENSES**

**Learning Objectives:** Following completion of this lab, the student will be able to:

- identify, describe and explain the functions of the accessory structures of the eye.
- identify and list the action of the six extrinsic eye muscles.
- identify, describe and explain the functions of the external and internal structures of the eye.
- identify the structures of a dissected sheep eye.
- explain the path of light through the eye resulting in perception of image.
- identify, describe and explain the functions of the components of the external, middle and inner ear.
- explain the chain of events that result in the perception of sound.
- identify, describe and explain the functions of taste buds.
- identify the microscopic features of taste buds.
- identify the microscopic features of the olfactory epithelium.

**Note:** You are not responsible for the following:

**Figure 18.1:** lacrimal gland; lacrimal puncta; lacrimal canaliculi; nasolacrimal duct; tear duct

**Figure 18.3:** all

**Figure 18.4:** suspensory ligament; central artery and vein of the retina

**Figure 18.5:** scleral venous sinus; suspensory ligaments

**Figure 18.6:** extrinsic eye muscles

**Figure 18.7:** extrinsic eye muscles

**Figure 18.11:** anterior semicircular canal; posterior semicircular canal; lateral semicircular canal; ampullae; bony labyrinth; membranous labyrinth

**Figure 18.12a:** all

**Figure 18.12b:** circumvallate papilla; filiform papilla; fungiform papilla

**Figure 18.13:** dendrite knob; cribriform plate of ethmoid bone; sensory neuron