**Amphibians** (p. 758 – 764)

**I. Key Characteristics Of Modern Amphibians**

**1. List the three orders of the Class Amphibia.**

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - frogs & toads

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - salamanders & newts

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - caecilians

**2.** **Circle the correct characteristics of amphibians.** *(Circle the one that applies.)*

Movement : Sessile Fins Legs

Respiration : Gills Lungs

Circulation : Double-Loop Single-Loop

Heart : 2-Chambered 3-Chambered 4-Chambered

**3. Define the term cutaneous respiration.**

Cutaneous Respiration –

**4. Besides water retention, what was another key challenge to evolving on land?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5. Describe the lungs of amphibians.**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**6. Respiratory efficiency of lungs is better than gills.**

Circle One : True False

**7. How is the first loop in the circulatory system of an adult amphibian different from the**

**second loop?**

1st Loop : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2nd Loop : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**8. Define the term pulmonary veins.**

Pulmonary Veins –

**9. What type of blood is in each part of an adult amphibian heart?** *(Circle one for each.)*

Right Atrium : Oxygen-Poor Mixed Blood Oxygen-Rich

Ventricle : Oxygen-Poor Mixed Blood Oxygen-Rich

Left Atrium : Oxygen-Poor Mixed Blood Oxygen-Rich

**II. Frogs & Toads**

**1. Circle the letter of the sentence that is false concerning anurans.**

a. They live in diverse ecosystems.

b. Adult frogs and toads are carnivores.

c. They have a sticky tongue to catch prey and are adapted for jumping.

d. Frog skins are covered in bumps.

**2. Frog egg fertilization is conducted externally.**

Circle One : True False

**3. Circle the letter of each characteristic of tadpoles.**

a. carnivore

b. herbivore

c. gills

d. lungs

**III. Leopard Frog** *(Up Close Section p. 762 – 763)*

**1. Match each frog anatomical term with the correct definitions.**

1. \_\_\_\_\_\_\_\_ Tympanic Membrane A. Used to prevent prey from escaping.

2. \_\_\_\_\_\_\_\_ Cloaca B. Muscle that stores urine.

3. \_\_\_\_\_\_\_\_ Urinary Bladder C. Covered with a transparent membrane.

4. \_\_\_\_\_\_\_\_ Ureter D. Eardrum; Vibrates when encountering sounds.

5. \_\_\_\_\_\_\_\_ Teeth E. Complex nervous organ (relative to fish).

6. \_\_\_\_\_\_\_\_ Brain F. Appearance allows for camouflage.

7. \_\_\_\_\_\_\_\_ Liver G. Chamber that releases urine and gametes.

8. \_\_\_\_\_\_\_\_ Eye H. Tubes that connect kidneys to the urinary bladder.

9. \_\_\_\_\_\_\_\_ Skin I. Large organ; Secretes bile & stabilizes sugar levels.

**IV. Salamanders & Caecilians**

**1. Circle the letter of the sentence that is false concerning salamanders.**

a. Salamanders need to live near moist areas to prevent dehydration.

b. Fertilization of salamanders is usually external.

c. Salamander larvae undergo metamorphosis, much like frogs and toads.

d. Larval salamanders possess gills, while adults have lungs.

**2. Circle the letter of each characteristic of caecilians.**

a. legless

b. live in tropical regions

c. external fertilization

d. small, bony scales