

Textbook Review

Chapter 16

Reading: Chapter 16 - pages 329-330

Questions: Page 339 – 11, 12, and 13.

1. Lobe-finned Fish

- a. Two species of Coelacanths
- b. Three species of Lungfish

Chapter 17

Reading: Chapter 17 - pages 341-355.

Questions: Page 355 – 1, 2, 3, 4, 5, 6, 7, 8, and 9.

1. Early Tetrapods and Modern Amphibians

- a. Movement onto land
- b. Four legs with five digits

2. Earliest diverging lineage within the Tetrapoda.

- a. Modern Amphibians
- b. Gymnophiona (Caecilians), Caudata, and Anura... exam will use these taxon names.

3. Know the basic life cycles for the salamanders and frogs.

- a. Some salamanders are paedomorphic.

Chapter 18

Reading: Chapter 18 - pages 356-374.

Questions: Page 373 – 1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, and 18.

1. Amniotic Egg: the pond of life.

2. Reptilia: note that the book does not include Avian Reptiles in their discussions of Reptiles.

3. Chelonia: an anapsid reptile.

- a. The book refers to turtles as Testudines... exam will use Chelonia.
- b. Basic morphology and lifestyle

4. Lepidosauria: a diapsid reptile (refer to the table on p. 371 for the taxonomy)

- a. Squamate reptiles (lizards and snakes)
- b. Tuatara

5. Archosauria: a diapsid reptile.

- a. Crocodylia.
- b. Note: This chapter excludes birds.

Chapter 19

Reading: Chapter 19 - pages 375-398.

Questions: Page 397 – 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10.

1. **Birds.**

- a. Evolved from Theropod Dinosaurs
- b. *Archaeopteryx* represents one of the earliest known birds.

2. **Adaptations for Flight.**

- a. Feathers.
- b. Skeleton... forelimbs modified into wings.
- c. Muscular System

3. **Mechanics of Flight**

- a. Lifting device (I mentioned in lecture to read p. 386 – 387).
- b. Variations of the airfoil

4. **Consequences of Flight.**

- a. Migration

5. **Social Behavior and Reproduction.**

- a. Nesting and parental care.

Chapter 20

Reading: Chapter 20 - pages 399-422.

Questions: Page 421 – 1, 2, 3, 4, 5, 7, 8, 10, 11, 12, and 15.

1. **Mammals.**

- a. Hair
- b. Horns and Antlers
- c. Glands

2. **Food and Feeding.**

- a. Feeding specialization

3. **Special Adaptations**

- a. Flight and Echolocation

4. **Reproduction**

- a. Monotremes
- b. Marsupials
- c. Placentals