***Zoology, 11e* (Miller)**

**Chapter 1 Zoology: An Evolutionary and Ecological Perspective**

1) The study of the structure and function of cells is \_\_\_\_\_\_\_\_.

A) anatomy

B) ecology

C) physiology

D) cytology

E) embryology

Answer: D

Section: 01.01

Topic: Introduction to Zoology

Bloom's: 1. Remember

Learning Outcome: 01.01.01 Differentiate various approaches to the science of zoology.

2) Ecology is the study of \_\_\_\_\_\_\_\_.

A) taxonomic relationships

B) fossil organisms

C) the development of organisms

D) the worldwide distribution of organisms

E) the interaction of organisms with each other and their environment

Answer: E

Section: 01.01

Topic: Introduction to Zoology

Bloom's: 1. Remember

Learning Outcome: 01.01.01 Differentiate various approaches to the science of zoology.

3) The study of the mechanisms of transmission of traits from parents to offspring is \_\_\_\_\_\_\_\_.

A) genetics

B) histology

C) cytology

D) embryology

E) physiology

Answer: A

Section: 01.01

Topic: Introduction to Zoology

Bloom's: 1. Remember

Learning Outcome: 01.01.01 Differentiate various approaches to the science of zoology.

4) This group of diverse fish has been greatly impacted in Lake Victoria because of the introduction of giant Nile perch in the 1950s.

A) Cod

B) Carp

C) Trout

D) Cichlids

E) Lampreys

Answer: D

Section: 01.03

Topic: Zoology—An Ecological Perspective

Bloom's: 1. Remember

Learning Outcome: 01.03.01 Use an example to generate an explanation for the importance of ecology as a unifying concept in zoology.

5) What is the correct way to write the scientific name of man?

A) *HOMO* *sapiens*

B) *Homo* *sapiens*

C) *Homo* *Sapiens*

D) *HOMO* *SAPIENS*

E) *homo* *sapiens*

*Answer:* B

Section: 01.02

Topic: Zoology—An Evolutionary Perspective

Bloom's: 2. Understand

Learning Outcome: 01.02.02 Explain how our taxonomic system is hierarchical.

6) The study of fishes is known as \_\_\_\_\_\_\_\_.

A) mammalogy

B) ornithology

C) ichthyology

D) herpetology

E) entomology

Answer: C

Section: 01.01

Topic: Introduction to Zoology

Bloom's: 1. Remember

Learning Outcome: 01.01.01 Differentiate various approaches to the science of zoology.

7) The study of insects is known as \_\_\_\_\_\_\_\_.

A) mammalogy

B) herpetology

C) ornithology

D) entomology

E) ichthyology

Answer: D

Section: 01.01

Topic: Introduction to Zoology

Bloom's: 1. Remember

Learning Outcome: 01.01.01 Differentiate various approaches to the science of zoology.

8) The study of amphibians and reptiles is known as \_\_\_\_\_\_\_\_.

A) ornithology

B) protozoology

C) entomology

D) mammalogy

E) herpetology

Answer: E

Section: 01.01

Topic: Introduction to Zoology

Bloom's: 1. Remember

Learning Outcome: 01.01.01 Differentiate various approaches to the science of zoology.

9) The study of birds is known as \_\_\_\_\_\_\_\_.

A) ornithology

B) herpetology

C) mammalogy

D) ichthyology

E) entomology

Answer: A

Section: 01.01

Topic: Introduction to Zoology

Bloom's: 1. Remember

Learning Outcome: 01.01.01 Differentiate various approaches to the science of zoology.

10) The study of the function of organisms and their component parts is called \_\_\_\_\_\_\_\_.

A) homology

B) anatomy

C) endocrinology

D) systematics

E) physiology

Answer: E

Section: 01.01

Topic: Introduction to Zoology

Bloom's: 1. Remember

Learning Outcome: 01.01.01 Differentiate various approaches to the science of zoology.

11) The man who originated the system of binomial nomenclature was \_\_\_\_\_\_\_\_.

A) Robert Hooke

B) Antone van Leeuwenhoek

C) Carl von Linnè

D) Charles Darwin

E) William Harvey

Answer: C

Section: 01.02

Topic: Zoology—An Evolutionary Perspective

Bloom's: 1. Remember

Learning Outcome: 01.02.02 Explain how our taxonomic system is hierarchical.

12) Binomial nomenclature uses a two-part unique name assigned to identify each kind of organism. The two parts of the name are the \_\_\_\_\_\_\_\_ names.

A) family and phylum

B) genus and family

C) species and class

D) genus and species

E) family and species

Answer: D

Section: 01.02

Topic: Zoology—An Evolutionary Perspective

Bloom's: 1. Remember

Learning Outcome: 01.02.02 Explain how our taxonomic system is hierarchical.

13) Charles Darwin published convincing evidence of evolution in \_\_\_\_\_\_\_\_.

A) 1524

B) 1703

C) 1859

D) 1921

E) 1963

Answer: C

Section: 01.02

Topic: Zoology—An Evolutionary Perspective

Bloom's: 1. Remember

Learning Outcome: 01.02.01 Appraise the importance of evolution as a unifying concept in zoology.

14) \_\_\_\_\_\_\_\_ is the study of the taxonomic classification and evolutionary relationships of living things.

A) Physiology

B) Systematics

C) Embryology

D) Cytology

E) Entomology

Answer: B

Section: 01.01

Topic: Introduction to Zoology

Bloom's: 1. Remember

Learning Outcome: 01.01.01 Differentiate various approaches to the science of zoology.

15) Organic evolution includes the concept that \_\_\_\_\_\_\_\_.

A) humans evolved from gorillas

B) everything evolved from amoebas

C) organisms have not changed since their origins

D) today's organisms are a result of random processes

E) organisms change over time

Answer: E

Section: 01.02

Topic: Zoology—An Evolutionary Perspective

Bloom's: 2. Understand

Learning Outcome: 01.02.01 Appraise the importance of evolution as a unifying concept in zoology.

16) Similarity in \_\_\_\_\_\_\_\_ is good evidence for evolutionary relationships among animals.

A) a sequence of DNA

B) habitats

C) body coloration

D) behavioral patterns

E) feeding habits

Answer: A

Section: 01.02

Topic: Zoology—An Evolutionary Perspective

Bloom's: 2. Understand

Learning Outcome: 01.02.01 Appraise the importance of evolution as a unifying concept in zoology.

17) Which of the following would not be a good practice in the conservation of endangered species?

A) Protected landscapes that may still be utilized in a sustainable fashion.

B) Zoos with established captive breeding programs for endangered species.

C) Introducing nonnative species into ecosystems to serve as enhanced food sources.

D) Botanical gardens to protect, propagate, and reintroduce endangered species.

E) A global system of national parks set aside to protect large tracts of land.

Answer: C

Section: 01.03

Topic: Zoology—An Ecological Perspective

Bloom's: 3. Apply

Learning Outcome: 01.03.02 Analyze the relationships between human population growth and threats to world resources.

18) Table 1.3 from the textbook provides human population data from 2018 and projections for the year 2050. While Europe is predicted to decline slightly in population, all of the other continents listed are predicted to increase. Using a calculator, determine which continent is predicted to increase the fastest?

A) Asia

B) Europe

C) Latin America and Caribbean

D) North America

E) Africa

Answer: E

Section: 01.03

Topic: Zoology—An Ecological Perspective

Bloom's: 3. Apply

Learning Outcome: 01.03.02 Analyze the relationships between human population growth and threats to world resources.

19) Table 1.3 from the textbook provides human population data from 2018 and projections for the year 2050. Africa is predicted to have the most rapidly growing population, more than a doubling of the current population, between now and the year 2050. Why would a doubling of Africa's population be noteworthy?

A) It would likely be associated with great strain on the environment and tremendous human suffering as the disparity between the poor and the wealthy is predicted to increase.

B) It would be associated with great strain on the environment but to the benefit of all members of the population as resources would be adequately shared among members of the population.

C) It would likely have no impact the environment but would cause tremendous human suffering as the disparity between the poor and the wealthy is predicted to increase.

D) It would likely have no impact on the environment and benefit all members of the population as resources would be distributed appropriately.

Answer: A

Section: 01.03

Topic: Zoology—An Ecological Perspective

Bloom's: 5. Evaluate

Learning Outcome: 01.03.02 Analyze the relationships between human population growth and threats to world resources.