## Test Bank for Biology Organisms and Adaptations Media Update Enhanced Edition 1st Edition by Noyd ISBN 1305960513 9781305960510

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**Solution Manual** 

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## Test Bank

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MUL	LTIPLE CHOICE	
1.	<ul> <li>As a transitional form, <i>Archaeopteryx</i> is important becan</li> <li>a. the evolution of birds into reptiles.</li> <li>b. the relationship between dinosaurs and birds.</li> <li>c. adaptations for animals moving from an aquatic to a land.</li> <li>d. all of these</li> </ul>	-
	ANS: B PTS: 1 DIF: Easy OBJ: Describe several characteristics of the <i>Archaeopteryx</i> form between reptiles (dinosaurs) and birds.	REF: Knowledge that support this animal as a transitional
	TOP: 2.1 Archaeopteryx and the Evolution of Birds	KEY: Evolution
2.	All of the following are adaptations associated with <i>flig</i> EXCEPT  a. feathers. b. a wishbone. c. backward facing claws for perching. d. a toothed beak.	
	ANS: D PTS: 1 DIF: Easy OBJ: Describe several characteristics of the <i>Archaeopteryx</i> form between reptiles (dinosaurs) and birds.  TOP: 2.1 <i>Archaeopteryx</i> and the Evolution of Birds	REF: Knowledge that support this animal as a transitional KEY: Adaptations
3.	Which of the following is an example of an organism's  a. a tortoise that lives on the African savannah eating grass  b. the thick mane of a male lion  c. the camouflage coloration of zebras as they stand in the  d. a flock of turkey vultures	ses and living in deep burrows
	ANS: A PTS: 1 DIF: Moderate OBJ: Describe several characteristics of the <i>Archaeopteryx</i> form between reptiles (dinosaurs) and birds.  TOP: 2.1 <i>Archaeopteryx</i> and the Evolution of Birds KEY: Ecological interactions; Niche	11

4. Which group of organisms played an important role in shaping Earth's atmosphere?

a. prokaryotes b. eukaryotes c. animals d. cyanobacteria ANS: D PTS: 1 DIF: Easy REF: Knowledge OBJ: Describe why and how the diversity of life is classified.

TOP: 2.2 The Diversity of Life Is Cataloged and Classified by Evolutionary Relationships

KEY: Ecological interactions

- 5. What role did cyanobacteria play in shaping Earth's environment?
  - a. They are single-celled organisms that are detritivores.
  - b. They produced oxygen, which led to changes in Earth's atmosphere.
  - c. They evolved into the first plants that colonized land.
  - d. They are the ancestral form of all life on Earth.

ANS: B PTS: 1 DIF: Easy REF: Comprehension

OBJ: Describe why and how the diversity of life is classified.

TOP: 2.2 The Diversity of Life Is Cataloged and Classified by Evolutionary Relationships

KEY: Ecological interactions

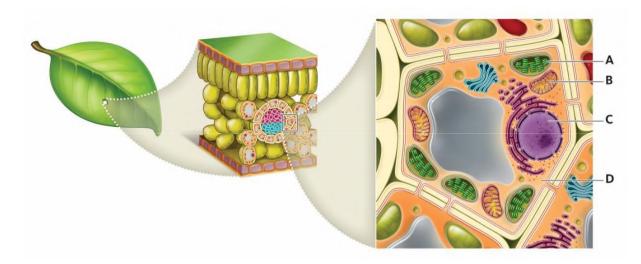
- 6. As prokaryotes, which structure is found in cyanobacteria?
  - a. nucleoid
  - b. mitochondrion
  - c. nucleus
  - d. all of these

ANS: A PTS: 1 DIF: Easy REF: Analysis

OBJ: Describe why and how the diversity of life is classified.

TOP: 2.2 The Diversity of Life Is Cataloged and Classified by Evolutionary Relationships

KEY: Cell types



- 7. Which structure originated from cyanobacteria?
  - a. A
  - b. B
  - c. C
  - d. D

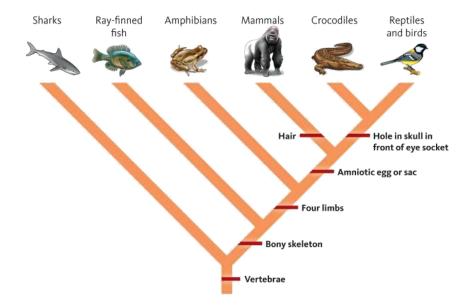
ANS: A PTS: 1 DIF: Moderate REF: Application

OBJ: Describe why and how the diversity of life is classified.

TOP: 2.2 The Diversity of Life Is Cataloged and Classified by Evolutionary Relationships

KEY: Cell structure and function NOT: Figure 2.22a

8.	inclusive to th a. kingdom, d b. species, kin c. class, order	_	sive? phylum family is	ne term	s in hierarchi	cal ord	er from the most
	ANS: C OBJ: Describe TOP: 2.2 The l KEY: Hierarch	Diversity of L	v the diversity				Comprehension nary Relationships
9.	<ul><li>a. belong to or</li><li>b. belong to the</li><li>c. belong to the</li></ul>	ne of three do ne same kingd ne domain Eu	lom.				
	ANS: A OBJ: Describe TOP: 2.2 The I KEY: Hierarch	why and how Diversity of L	•				Comprehension nary Relationships
10.	However, ther	e is at least one organisms of	one character evolutionary lo not interbr	istic th novelty eed. A	at is not share that is not pr s a result, wha	ed by the resent in	ysical characteristics. lese organisms—each in the other organism ely the lowest
	ANS: B OBJ: Describe TOP: 2.2 The l KEY: Hierarch	Diversity of L	v the diversity				Analysis nary Relationships
11.	Which of the fa. Archaea and b. Eukarya and c. Bacteria and d. Archaea, B.	d Bacteria d Archaea		n proka	aryotic cells?		
	ANS: A OBJ: Describe TOP: 2.2 The I KEY: Hierarch	Diversity of L	v the diversity		s classified.		Knowledge nary Relationships



- 12. Which of the following groups share the characteristic of having an amniotic sac or egg?
  - a. amphibians, mammals, and crocodiles
  - b. sharks, amphibians, and ray-finned fishes
  - c. mammals, crocodiles, and reptiles/birds
  - d. reptiles/birds, crocodiles, and amphibians

ANS: C PTS: 1 DIF: Easy REF: Comprehension

OBJ: Describe why and how the diversity of life is classified.

TOP: 2.2 The Diversity of Life Is Cataloged and Classified by Evolutionary Relationships

KEY: Phylogeny NOT: Figure 2.12

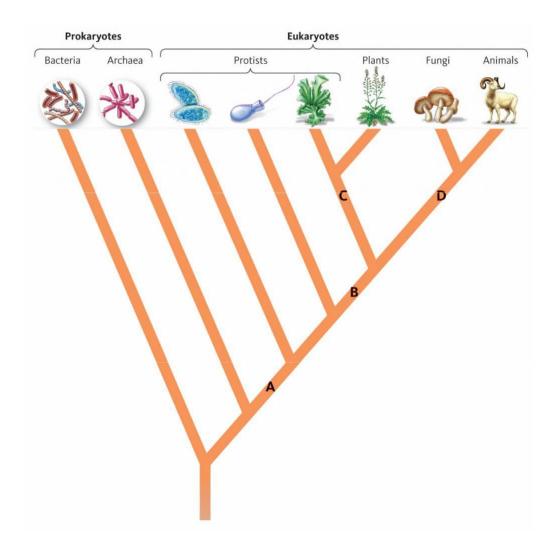
- 13. Which characteristic is common to all groups represented on this evolutionary tree?
  - a. vertebrae
  - b. bony skeleton
  - c. four limbs
  - d. amniotic egg or sac

ANS: A PTS: 1 DIF: Easy REF: Comprehension

OBJ: Describe why and how the diversity of life is classified.

TOP: 2.2 The Diversity of Life Is Cataloged and Classified by Evolutionary Relationships

KEY: Phylogeny NOT: Figure 2.12



- 14. Based on the evolutionary tree, which domain is most closely related to animals?
  - a. Prokaryotes
  - b. Eukaryotes
  - c. Archaea
  - d. Bacteria

ANS: C PTS: 1 DIF: Moderate REF: Analysis

OBJ: Describe why and how the diversity of life is classified.

TOP: 2.2 The Diversity of Life Is Cataloged and Classified by Evolutionary Relationships

KEY: Phylogeny NOT: Figure 2.15

- 15. Based on the evolutionary tree, which letter represents the common ancestor of animals and fungi?
  - a. A
  - b. B
  - c. C
  - d. D

ANS: D PTS: 1 DIF: Moderate REF: Analysis

OBJ: Describe why and how the diversity of life is classified.

TOP: 2.2 The Diversity of Life Is Cataloged and Classified by Evolutionary Relationships

KEY: Phylogeny NOT: Figure 2.15

16.	Based on the evolutionary tree, which letter represents the common ancestor of all eukaryotes?
	<ul> <li>a. A</li> <li>b. B</li> <li>c. C</li> <li>d. D</li> </ul>
	ANS: A PTS: 1 DIF: Moderate REF: Analysis OBJ: Describe why and how the diversity of life is classified. TOP: 2.2 The Diversity of Life Is Cataloged and Classified by Evolutionary Relationships
	KEY: Phylogeny NOT: Figure 2.15
17.	Despite the variety of sizes, shapes, and colors, a male German Shepherd and a Great Dane (two breeds of dogs) can mate with one another and produce offspring. Do these dogs belong to the same species?  a. yes, because they can interbreed  b. no, because they each have evolutionary novelties not shared by the other breed  c. no, because they are different dog breeds  d. yes, because they share physical similarities
	ANS: A PTS: 1 DIF: Moderate REF: Application OBJ: Describe why and how the diversity of life is classified. TOP: 2.2 The Diversity of Life Is Cataloged and Classified by Evolutionary Relationships KEY: Hierarchy
18.	All life can be divided into domains and kingdoms.  a. three; three b. four; four c. three; four d. four; three  ANS: C PTS: 1 DIF: Easy REF: Knowledge OBJ: Discuss the basic characteristics of animals, plants, fungi, and protists. TOP: 2.3 Animals, Plants, Fungi, and Protists Are Classified in the Domain Eukarya KEY: Hierarchy
19.	A researcher is studying a parasitic bacterium that produces toxins that can harm its host. Thus, the researcher is studying a(n)  a. heterotrophic eukaryote. b. autotrophic eukaryote. c. heterotrophic prokaryote. d. autotrophic prokaryote.  ANS: C PTS: 1 DIF: Easy REF: Application OBJ: Discuss the basic characteristics of animals, plants, fungi, and protists.  TOP: 2.3 Animals, Plants, Fungi, and Protists Are Classified in the Domain Eukarya KEY: Ecological interactions
20.	Which of the following characteristics apply to animals?  a. heterotroph only b. heterotroph, producer c. heterotroph, multicellular d. heterotroph, producer, multicellular, cell wall

	ANS: C PTS: 1 DIF: Easy REF: Comprehension OBJ: Discuss the basic characteristics of animals, plants, fungi, and protists.  TOP: 2.3 Animals, Plants, Fungi, and Protists Are Classified in the Domain Eukarya KEY: Ecological interactions
21.	<ul> <li>Which of the following characteristics apply to plants?</li> <li>a. producer only</li> <li>b. heterotroph, producer</li> <li>c. producer, multicellular, cell wall</li> <li>d. heterotroph, producer, multicellular, cell wall</li> </ul>
	ANS: C PTS: 1 DIF: Easy REF: Comprehension OBJ: Discuss the basic characteristics of animals, plants, fungi, and protists. TOP: 2.3 Animals, Plants, Fungi, and Protists Are Classified in the Domain Eukarya KEY: Ecological interactions
22.	Which of the following characteristics apply to fungi?  a. heterotroph only  b. heterotroph, producer  c. heterotroph, multicellular, cell wall  d. heterotroph, producer, multicellular, cell wall
	ANS: C PTS: 1 DIF: Easy REF: Comprehension OBJ: Discuss the basic characteristics of animals, plants, fungi, and protists.  TOP: 2.3 Animals, Plants, Fungi, and Protists Are Classified in the Domain Eukarya KEY: Ecological interactions
23.	Which of the following are heterotrophic eukaryotes with a cell wall?  a. ferns b. mosses c. mushrooms d. orchids
	ANS: C PTS: 1 DIF: Easy REF: Application OBJ: Discuss the basic characteristics of animals, plants, fungi, and protists. TOP: 2.3 Animals, Plants, Fungi, and Protists Are Classified in the Domain Eukarya KEY: Ecological interactions
24.	All of the following statements are true about organisms that photosynthesize EXCEPT:  a. They are called producers.  b. They are able to convert the sun's energy into a different form of energy.  c. They release oxygen.  d. They are all eukaryotes.
	ANS: D PTS: 1 DIF: Easy REF: Comprehension OBJ: Discuss the basic characteristics of animals, plants, fungi, and protists.  TOP: 2.3 Animals, Plants, Fungi, and Protists Are Classified in the Domain Eukarya KEY: Photosynthesis
25.	As producers, what inputs do plants require for the process of photosynthesis?  a. oxygen and sunlight  b. oxygen and carbon dioxide  c. carbon dioxide and sunlight  d. carbon dioxide, oxygen, and sunlight

	ANS: C PTS: 1 DIF: Easy REF: Knowledge OBJ: Discuss the basic characteristics of animals, plants, fungi, and protists. TOP: 2.3 Animals, Plants, Fungi, and Protists Are Classified in the Domain Eukarya KEY: Photosynthesis
26.	Both plant and animal cells have all the following structures EXCEPT  a. a cell membrane.  b. a nucleus.  c. mitochondria.  d. chloroplasts.
	ANS: D PTS: 1 DIF: Easy REF: Knowledge OBJ: Discuss the basic characteristics of animals, plants, fungi, and protists. TOP: 2.3 Animals, Plants, Fungi, and Protists Are Classified in the Domain Eukarya KEY: Cell types
27.	Which of the following characteristics are shared by cells found in both plants and fungi?  a. cell wall  b. chloroplast  c. photosynthesis  d. all of these
	ANS: A PTS: 1 DIF: Easy REF: Knowledge OBJ: Discuss the basic characteristics of animals, plants, fungi, and protists. TOP: 2.3 Animals, Plants, Fungi, and Protists Are Classified in the Domain Eukarya KEY: Cell types
28.	The portion of a mushroom that you typically eat is  a. the fruiting body.  b. the reproductive structure.  c. the chytrid sac.  d. both the fruiting body and the reproductive structure.
	ANS: D PTS: 1 DIF: Easy REF: Knowledge OBJ: Discuss the basic characteristics of animals, plants, fungi, and protists. TOP: 2.3 Animals, Plants, Fungi, and Protists Are Classified in the Domain Eukarya KEY: Ecological interactions
29.	All of the following are beneficial characteristics of fungi EXCEPT:  a. They decompose and recycle dead matter.  b. They are a source of medicines.  c. They are producers that release oxygen.  d. They are a food source.
	ANS: C PTS: 1 DIF: Easy REF: Knowledge OBJ: Discuss the basic characteristics of animals, plants, fungi, and protists. TOP: 2.3 Animals, Plants, Fungi, and Protists Are Classified in the Domain Eukarya KEY: Ecological interactions
30.	<ul> <li>Which of the following is not true of protists as a group?</li> <li>a. They are all single-celled.</li> <li>b. They are eukaryotes.</li> <li>c. They range in size from microscopic to large multicellular organisms.</li> <li>d. They likely belong to multiple kingdoms.</li> </ul>

	ANS: A PTS: 1 DIF: Easy REF: Knowledge OBJ: Discuss the basic characteristics of animals, plants, fungi, and protists. TOP: 2.3 Animals, Plants, Fungi, and Protists Are Classified in the Domain Eukarya KEY: Cell types
31.	Protists are currently divided into informal groups based on their similarity to other kingdoms. A protist that is a decomposer is categorized as a(n) protist.  a. animal-like b. plantlike c. funguslike d. autotrophic
	ANS: C PTS: 1 DIF: Easy REF: Knowledge OBJ: Discuss the basic characteristics of animals, plants, fungi, and protists. TOP: 2.3 Animals, Plants, Fungi, and Protists Are Classified in the Domain Eukarya KEY: Cell types
32.	This organism lives in an aquatic environment and is a eukaryotic heterotroph without any cell walls. What kingdom does it likely belong to?  a. animals b. fungi c. plants d. archaea
	ANS: A PTS: 1 DIF: Easy REF: Analysis OBJ: Discuss the basic characteristics of animals, plants, fungi, and protists. TOP: 2.3 Animals, Plants, Fungi, and Protists Are Classified in the Domain Eukarya KEY: Hierarchy
33.	All of the following are true about prokaryotic cells EXCEPT:  a. Prokaryotic cells are smaller than eukaryotic cells.  b. They do not contain DNA.  c. They have no membrane-bound organelles.  d. They have ribosomes and a cell membrane.  e. They are found in two domains: Bacteria and Archaea.
	ANS: B PTS: 1 DIF: Easy REF: Knowledge OBJ: Discuss the basic characteristics of prokaryotic organisms.  TOP: 2.4 Bacteria and Archaea Are Prokaryotic Microorganisms KEY: Cell types

34.	Bacteria and Archaea  a. belong to the same domain.  b. have similar cellular structures.  c. have cell walls that are structurally similar to plant cell walls.  d. are more closely related to each other than to eukaryotes.
	ANS: B PTS: 1 DIF: Easy REF: Knowledge OBJ: Discuss the basic characteristics of prokaryotic organisms. TOP: 2.4 Bacteria and Archaea Are Prokaryotic Microorganisms KEY: Hierarchy
	Insects and bacteria appear to team up against a pesticide that is commonly sprayed on crops. The bean bug <i>Riptortus pedestris</i> is a common soybean pest and in a recent study was shown to acquire resistance to a common insecticide. This resistance is related to the presence of bacteria ( <i>Burkholderia</i> sp.) living within its gut. In this mutually beneficial relationship, more than 100 million bacteria can live within the insect's gut. Evidence suggests that these bacteria are able to break down the pesticide into carbon dioxide, which is used by the bacteria, and harmless waste products are then secreted. In a recent study, researchers fed bacteria-infested bean bugs and bacteria-free bean bugs a diet of soybean seedlings that had been treated with the pesticide. Most of the bacteria-infested bean bugs survived after eating the treated soybeans, but 80 percent of the bacteria-free bean bugs died.
35.	In the study using bean bugs, soybeans and <i>Burkholderia</i> bacteria, how many domains are represented?  a. one  b. two  c. three  d. four
	ANS: B PTS: 1 DIF: Easy REF: Application OBJ: Describe why and how the diversity of life is classified. TOP: 2.2 The Diversity of Life Is Cataloged and Classified by Evolutionary Relationships KEY: Hierarchy
36.	Carbon dioxide, which is a breakdown product of the pesticide, is likely used by the

bacteria for which of the following?

- a. an energy source
- b. cell structure
- c. to carry genetic information
- d. both an energy source and cell structure

REF: Application ANS: D DIF: Moderate PTS: 1

OBJ: Describe why and how the diversity of life is classified.

TOP: 2.2 The Diversity of Life Is Cataloged and Classified by Evolutionary Relationships

KEY: Cell structure and function

37. Of the organisms mentioned in this study, which is an autotroph?

- a. soybeans
- b. bacteria
- c. bean bugs
- d. both bacteria and bean bugs

	ANS: A PTS: 1 DIF: Easy REF: Comprehension OBJ: Discuss the basic characteristics of animals, plants, fungi, and protists.  TOP: 2.3 Animals, Plants, Fungi, and Protists Are Classified in the Domain Eukarya KEY: Ecological interactions
38.	In the experiment, what would be considered the control group?  a. the bacteria-free bean bugs  b. the bacteria-infested bean bugs  c. the use of pesticides on the soybean plants  d. the number of deaths caused by eating the plants
	ANS: A PTS: 1 DIF: Moderate REF: Application OBJ: Describe the process of science, including how scientists use evidence to answer questions about life. TOP: 1.5 Biologists Use Evidence to Answer Questions about the Living World KEY: Scientific method
39.	Together, the bean bugs and the bacteria living within their gut would be considered a(n) a. organism. b. population. c. community. d. ecosystem.
	ANS: C PTS: 1 DIF: Easy REF: Application OBJ: Describe why and how the diversity of life is classified. TOP: 2.2 The Diversity of Life Is Cataloged and Classified by Evolutionary Relationships KEY: Ecological interactions
40.	Which of the following term(s) likely apply to the pesticide?  a. macromolecule  b. nucleic acid  c. inorganic molecule  d. nucleic acid and inorganic molecule
	ANS: A PTS: 1 DIF: Moderate REF: Analysis  OBJ: Explain how organisms are systems of complex interactions at all levels of hierarchy.  TOP: 1.3 Organisms Are Complex Interactive Systems at All Levels of Organization  KEY: Macromolecules
41.	In an agricultural field where pesticides are regularly sprayed, there are always some insects that survive due to some innate resistance based on their genetic makeup. These are the ones that then reproduce so that in future generations there are more insects/pests that are resistant to the pesticides. Over time, this may give rise to an entire population that is resistant to the pesticide. This is an example of a. homology.  b. natural selection.  c. experimentation.  d. classification.
	ANS: B PTS: 1 DIF: Moderate REF: Application OBJ: Describe how the unity and diversity of life are explained by evolution. TOP: 1.4 The Unity and Diversity of Life Are Explained By Evolution KEY: Evolution; Natural selection

## Test Bank for Biology Organisms and Adaptations Media Update Enhanced Edition 1st Edition by Noyd IBSN 9781305960 MATCHING

Match the following characteristic to the appropriate organism(s).

- a. cell wall
- b. chloroplast
- c. nucleoid
- d. ribosomes
- e. heterotroph
- 1. bacteria and soybean
- 2. bacteria only
- 3. bacteria, soybean, and bean bug
- 4. bacteria and bean bug
- 5. soybean only
- 1. ANS: A PTS: 1 DIF: Moderate REF: Application
  - OBJ: Describe why and how the diversity of life is classified.
  - TOP: 2.2 The Diversity of Life Is Cataloged and Classified by Evolutionary Relationships
  - KEY: Cell structure and function
- 2. ANS: C PTS: 1 DIF: Moderate REF: Application
  - OBJ: Discuss the basic characteristics of prokaryotic organisms.
  - TOP: 2.4 Bacteria and Archaea Are Prokaryotic Microorganisms
  - KEY: Cell structure and function
- 3. ANS: D PTS: 1 DIF: Moderate REF: Application
  - OBJ: Discuss the basic characteristics of prokaryotic organisms.
  - TOP: 2.4 Bacteria and Archaea Are Prokaryotic Microorganisms
  - KEY: Cell structure and function
- 4. ANS: E PTS: 1 DIF: Moderate REF: Application
  - OBJ: Discuss the basic characteristics of animals, plants, fungi, and protists.
  - TOP: 2.3 Animals, Plants, Fungi, and Protists Are Classified in the Domain Eukarya
  - KEY: Cell structure and function
- 5. ANS: B PTS: 1 DIF: Moderate REF: Application
  - OBJ: Describe why and how the diversity of life is classified.
  - TOP: 2.2 The Diversity of Life Is Cataloged and Classified by Evolutionary Relationships
  - KEY: Cell structure and function