

Answer Key

Unit 4 Animals: Structure and Function

Unit Preparation Questions (Assessing Readiness)

(Student textbook pages 396–9)

1. absorption, digestion, respiration, biosynthesis, excretion, egestion, secretion, movement, irritability, homeostasis, and reproduction
2. c
3. Students may suggest osmosis or diffusion. Some students may also suggest active transport (endocytosis, exocytosis). All of these answers are acceptable.
4. d
5. 6CO_2 , $6\text{H}_2\text{O}$
6. A is the cell membrane, which separates the inside of the cell from the environment within the body, and controls the flow of materials into and out of the cell. B is the cytoplasm, which includes the cytosol, organelles, and other life-supporting materials. C is a mitochondrion, from which energy is released from glucose to fuel cell activities.
7. c
8. a. Both processes move molecules across the cell membrane.
b. Osmosis is the process whereby water moves through the cell membrane so that the numbers of water molecules on the inside and outside of a cell are the same. Diffusion is the movement of molecules from areas where there are higher concentrations of molecules to areas where there are lower concentrations of molecules.
Sample answer:



9. Sweating is an example of osmosis. The gas exchange in our lungs is an example of diffusion.
10. a. A sperm cell requires the most food energy, because the sperm tail moves back and forth like a whip.
b. Skin cells have the least number of mitochondria of the three types because they require the least amount of energy. Skin cell functions do not include movement, whereas muscle cells must provide energy for muscles to contract and relax.

11. c

12. In multicellular organisms, cell division is needed for tissue and organ growth, and to repair and replace cells in the organism.

13. Answers should include three of: blood cells, skin cells, muscle cell, nerve cell, bone cell

14.



15. a. D

b. B

c. C

d. A

16. c

17. b

18. a

19. b

20. a. and b.

Sample answer:



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H. Steinhaus



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National Library of Medicine Catalog National Library of Medicine (U.S.),1966

Evolution, Chance, and God Brendan Sweetman,2015-10-22 Evolution Chance and God looks at the relationship between religion and evolution from a philosophical perspective This relationship is fascinating complex and often very controversial involving myriad issues that are difficult to keep separate from each other Evolution Chance and God introduces the reader to the main themes of this debate and to the theory of evolution while arguing for a particular viewpoint namely that evolution and religion are compatible and that contrary to the views of some influential thinkers there is no chance operating in the theory of evolution a conclusion that has great significance for teleology One of the main aims of this book is not simply to critique one influential contemporary view that evolution and religion are incompatible but to explore specific ways of how we might understand their compatibility as well as the implications of evolution for religious belief This involves an exploration of how and why God might have created by means of evolution and what the consequences in particular are for the status of human beings in creation and for issues such as free will the objectivity of morality and the problem of evil By probing how the theory of evolution and religion could be reconciled Sweetman says that we can address more deeply key foundational questions concerning chance design suffering and morality

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