Answer Key

Unit 4 Animals: Structure and Function

Unit Preparation Questions (Assessing Readiness)

(Student textbook pages 396-9)

- absorption, digestion, respiration, biosynthesis, excretion, egestion, secretion, movement, irritability, homeostasis, and reproduction
- 2. c
- Students may suggest osmosis or diffusion.
 Some students may also suggest active transport (endocytosis, exocytosis). All of these answers are acceptable.
- 4. d
- 5. 6CO₂. 6H₂O
- 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. 0
- 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:

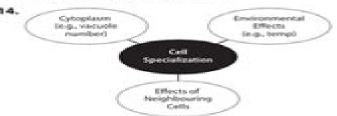
Osmosis

• water molecules only

improvement access a cell access a cell access access access stopps when moleculars incide and outlined are equaliped.

Diffusion - any molecules

- Sweating is an example of osmosis. The gas exchange in our lungs is an example of diffusion.
- 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
- In multicellular organisms, cell division is needed for tissue and organ growth, and to repair and replace cells in the organism.
- Answers should include three of: blood cells, skin cells, muscle cell, nerve cell, bone cell



- 15. a. D
 - ь. в
 - e. C
 - d. A
- 16. c
- 17. b
- 18. a
- 19. b
- 20. a. and b.

Sample answer:

Organ system (dissulatory system)	
• • • • • • • • • • • • • • • • • • • •	
Gegan (heart)	
Tissue (cardiac muscle)	
•	
Cell (cardiac muscle cell)	

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lda M. Lynn

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Prentice Hall Science Anthea Maton, Jill D. Wright, Jean Hopkins, Susan Johnson, David Lahart, Maryanna Quon Warner, 1994 General Biology William Carl Beaver, 1958 The American Biology Teacher, 1938 Includes section Books Optical Engineering, 1994 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology ENC Focus, 2001

Transcultural Nursing - E-Book Joyce Newman Giger, Linda Haddad, 2020-03-10 NEW co author Dr Linda Haddad is an internationally recognized cultural scholar who has taught nursing around the globe has acted as an advisor and coordinator for the World Health Organization and has published over 30 scholarly articles on nursing with a focus on understanding the cultural implication to care UPDATED Cultural chapters are completely revised to reflect the shifting experiences of cultural groups in our society Islamic Psychology G. Hussein Rassool, 2021-03-31 Islamic Psychology or ilm an nafs science of the soul is an important introductory textbook drawing on the latest evidence in the sub disciplines of psychology to provide a balanced and comprehensive view of human nature behaviour and experience Its foundation to develop theories about human nature is based upon the writings of the Qur an Sunna Muslim scholars and contemporary research findings Synthesising contemporary empirical psychology and Islamic psychology this book is holistic in both nature and process and includes the physical psychological social and spiritual dimensions of human behaviour and experience Through a broad and comprehensive scope the book addresses three main areas Context perspectives and the clinical applications of applied psychology from an Islamic approach This book is a core text on Islamic psychology psychotherapy and counselling Beyond this it is also a good supporting resource for teachers and lecturers in this field

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continues by describing the properties of material systems that are best understood by statistical and phase space concepts Chapter II These lead to entropy and to the classical picture of quantitative information initially devoid of value and meaning Chapter III Finally information space and dynamics within it are introduced as a basis for semantics Chapter IV leading to an exploration of life and thought as new problems in physics Chapter V Dynamic equations again of a strange but very general nature bring about the complex familiarity of the world we live in Surprising new results in the life sciences open our eyes to the richness of physical thought and they show us what can and what cannot be explained by a Darwinian approach The abstract physical approach is applicable to the origins of life of meaningful information and even of our universe

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