

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:



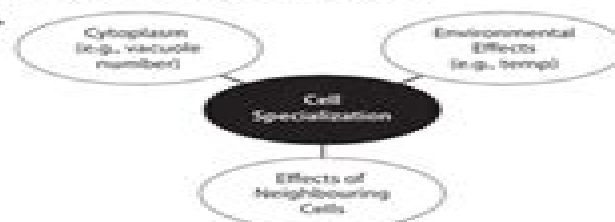
9. Sweating is an example of osmosis. The gas exchange in our lungs is an example of diffusion.
10. a. A sperm cell requires the most food energy, because the sperm tail moves back and forth like a whip.
b. Skin cells have the least number of mitochondria of the three types because they require the least 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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James Eglinton



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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 for undergraduate and postgraduate students and those undertaking continuing professional development in 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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Tropical Ecology D. E. Pomeroy,M. W. Service,1986 *A Textbook of Children's and Young People's Nursing E-Book*

Edward Alan Glasper,James Richardson,2010-05-19 This popular textbook is aimed at children s nurses in a wide range of practice settings including primary ambulatory and tertiary care Covering the full age and specialty spectrum this text brings together chapters from among the best known children s nurses in the UK It describes family centred child healthcare drawing upon practice throughout the UK and further afield This innovative text provides up to date information on a wide range of topics Each chapter offers readers additional material on Evolve Full Microsoft PowerPoint presentations that facilitate interactive learning augment the written chapters and provide information not normally possible in a standard textbook e g colour photographs video clips Although intended for nurses the book adopts an interprofessional problem solving and reflective approach aimed at students practitioners and child health educators Material is offered from levels 1 3 and some of the ancillary material extends into the postgraduate arena Each chapter offers readers additional material on an Evolve website Full Microsoft PowerPoint presentations augment the written chapters and provide extra information that includes case studies moving image photographs and text Aims objectives learning outcomes a summary box in each chapter and key points assist learning and understanding Professional conversation boxes enliven the text on the page and make it more interesting to dip into Suggestions for seminar discussion topics to help teachers Case studies help to relate theory to practice Prompts to promote reflective practice Activity boxes suggested visits Evidence based practice boxes which highlight key research studies annotated bibliographies including details of web sites and full contemporary references to the evidence base Resource lists including recommended web site addresses New chapter on blood disorders of childhood New material on caring for young people and transitions in care More on childhood eczema childhood and adolescent mental health solid tumours of childhood **In Mendel's Mirror** Philip Kitcher,2003-03-27 Philip Kitcher is one of the leading figures in the philosophy of science today Here he collects for the first time many of his published articles on the philosophy of biology spanning from the mid 1980 s to the present The book s title refers to Gregor Mendel an Augustinian monk who was one of the first scientists to develop a theory of heredity Mendel s work has been deeply influential to our understanding

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