

Cell Biology Unit Study Guide - Answer Key

1. A student could tell the difference between onion skin cells and cheek cells because the onion skin cells have a cell wall and chloroplasts
2. What is the difference between a prokaryotic and a eukaryotic cell? Prokaryotes have no membrane-bound organelles
3. Why does a virus require a host cell? Because they are not able to make proteins on their own
4. What type of organisms are prokaryotes? bacteria
5. The function of a cell membrane is to (1) control what enters and leaves the cell, (2) support the shape of the cell, and (3) contain identification markers for other cells.
6. In the final phase of completion, proteins are modified by special enzymes in what organelle? Golgi apparatus
7. In which organelle would water and dissolved materials be stored? vacuole
8. Describe the structure and function of the following organelles: endoplasmic reticulum, ribosomes, Golgi apparatus, mitochondrion.
(a) ER - network of interconnected membranes forming sacs and canals; transports proteins,
(b) ribosomes - ribosomal RNA; site of protein synthesis
(c) Golgi apparatus - membranous sacs; modify and package proteins
(d) mitochondrion - membranous sacs; produces ATP
9. Osmosis is defined as the movement of water molecules from a high concentration to a low concentration through a selectively permeable membrane.
10. The structure and function of membrane proteins are described as globular proteins that create narrow passageways or channels for molecule transport.
11. The cellular structure that is involved in producing ATP during aerobic respiration is the mitochondrion.
12. The membrane-bound organelles which convert solar energy to chemical energy are? chloroplasts
13. What is the function of the nucleus?
(a) stores DNA
(b) controls most of the cell's processes
(c) contains the information needed to make proteins

Biology Competency Test Study Guide Answers

SJ Ball



Biology Competency Test Study Guide Answers:

Biology 6-12 Florida. Dept. of Education, 1999 **New Jersey Biology Competency Test** Cynthia

Pfaffmann, 2012-08-01 This brand new manual offers New Jersey high school students in depth content and conceptual preparation for the required statewide biology exam An introductory chapter describes biology as a scientific discipline and discusses the characteristics of all living things Fifteen chapters that follow focus on specifics which include Cells organic biomolecules cellular transport and reproduction Molecular genetics Mendelian genetics and genetic technology Energy exchanges and classification of living things Energetics Human body systems and classification of living things Ecology biomes and human impacts on life forms and on the earth Each chapter concludes with a glossary of biological terms suggestions to students for organizing their notes and a set of review questions with answers that reflect the types of questions students will encounter on the actual test **Resources in Education** , 1978 **Arun Deep's Self-Help to**

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to ICSE Chemistry Class 10 : 2024-25 Edition (Based on Latest ICSE Syllabus) Amar Bhutani, 2024-03-01

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