

Principles of Biology Lecture Exam 1 Study Guide

Diagrams

The following diagrams from the textbook may appear on Exam 1:

Figures 2.9, 3.6, 3.11, 3.12, 4.5, and 6.2

Most Relevant Learning Outcomes

1. Identify, describe, and give examples of the basic characteristics of life.
2. List, describe, and give examples of levels of biological organization.
3. Describe the relationship between natural selection and adaptation.
4. Distinguish between science and technology.
5. Summarize some of the major challenges facing science.
6. Describe the strengths of science.
7. Distinguish between a law/principle and a theory.
8. Analyze a scientific experiment and identify the hypotheses, experimental groups, control groups, and conclusions.
9. Formulate the predictive hypotheses, Null and Alternative, for an experiment.
10. Determine whether inductive or deductive reasoning is being used.
11. Identify popular and peer-review primary scientific literature.
12. Describe the atomic structure of atoms in terms of electrons, protons, and neutrons.
13. List uses for radioactive isotopes.
14. Describe the different types of chemical bonds.
15. Describe how the characteristics of water relate to its chemical structure.
16. Describe the characteristics of water and how they are important to life.
17. Describe the chemical nature of acid or basic solutions.
18. Compare organic and inorganic molecules.
19. Draw the structure of the following functional groups: Hydroxyl, Carboxyl, Amino, and Phosphate.
20. Describe the buildup and breakdown of polymers.
21. Distinguish between monosaccharides, disaccharides, polysaccharides.
22. Describe the parts of lipid molecules.
23. Compare and contrast the structure and functions of phospholipids, fats/oils, and cholesterol.
24. Discern healthy fats from unhealthy ones and describe the effect of unhealthy fats on the body.
25. Describe the functions of proteins in cells.
26. Explain how a polypeptide is constructed from amino acids.
27. Describe and compare the 4 levels of protein structure.
28. Describe the function of ATP in cells.
29. Explain the relationship between cell function and cell size.
30. List the principles of the Cell Theory.
31. Name the parts of the plasma membrane.
32. Describe the function of the plasma membrane.

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Success with STEM Sue Howarth, Linda Scott, 2014-11-13 Success with STEM is an essential resource packed with advice and ideas to support and enthuse all those involved in the planning and delivery of STEM in the secondary school It offers guidance on current issues and priority areas to help you make informed judgements about your own practice and argue for further support for your subject in school It explains current initiatives to enhance STEM teaching and offers a wide range of practical activities to support exciting teaching and learning in and beyond the classroom Illustrated with examples of successful projects in real schools this friendly inspiring book explores Innovative teaching ideas to make lessons buzz Activities for successful practical work Sourcing additional funding Finding and making the most of the best resources STEM outside the classroom Setting up and enhancing your own STEM club Getting involved in STEM competitions fairs and festivals Promoting STEM careers and tackling stereotypes Health safety and legal issues Examples of international projects An wide ranging list of project and activity titles Enriched by the authors extensive experience and work with schools Success with STEM is a rich compendium for all those who want to develop outstanding lessons and infuse a life long interest in STEM learning in their students The advice and guidance will be invaluable for all teachers subject leaders trainee teachers and NQTs

Conquering Test Anxiety Pescar, Susan C./Fiore, Neil, 2009-11-29 Tells how to develop self confidence stresses the importance of sound preparation and explains techniques for avoiding anxiety and depression

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