

Honors Biology – Midterm Exam 2015-2016

Midterm Review Questions

Disclaimer: This is by no means a comprehensive review and SHOULD NOT be used as a standalone review guide. Students should reference their notebook (notes, labs, homework assignments, quizzes) as well as their textbook for a more thorough review.

SCIENTIFIC METHOD/CHARACTERISTICS OF LIVING THINGS

1. List the steps of the scientific method and give a general description of each step.
2. Differentiate between a control and a variable.
 - a. Independent, dependent, controlled variable, control group, and experimental group
3. What is a controlled experiment and what are the main components?
 - a. Data graphing and analysis

ECOLOGY

4. Differentiate between a population, community, and ecosystem.
5. Identify biotic and abiotic factors
6. Explain the limiting factors within a population
7. Map the transfer of energy from one trophic level to another
8. Identify the characteristics of primary or secondary succession
9. Determine if a population is developing or developed by looking at population density graphs.

CHEMISTRY/BIOCHEMISTRY

10. Organic compounds must, by definition, contain which element?
11. What are the four biological compounds in living things, monomer, important biological functions and characteristic of compounds? What is an indicator?
12. What are enzymes and why are they important in living things?
13. What conditions might alter the function of an enzyme?

CELL STRUCTURE AND FUNCTION/CELLULAR TRANSPORT

14. List the three components of cell theory.
15. Differentiate the three parts of cellular respiration
 - a. Glycolysis
 - b. Krebs Cycle
 - c. Electron Transport Chain
16. Identify, describe the functions, and state if found in plant cell, animal cell or both of the following organelles: mitochondria, chloroplast, ribosomes, nucleus, nucleolus, vacuole, cell wall, cell membrane, centrioles, lysosomes
17. What are the main components of the cell membrane?
18. Draw and label the polar and nonpolar parts of a phospholipid. How do phospholipids face each other in the cell membrane?
19. Differentiate between passive and active transport.
20. Which of the following are examples of passive transport? Which are examples of active transport? Diffusion, facilitated diffusion, endocytosis, exocytosis, osmosis.
21. Compare and contrast diffusion, facilitated diffusion, and osmosis.
22. What happens to cells placed in hypertonic solutions? What happens to cells in hypotonic solutions? What happens to cells placed in isotonic solutions?
23. Differentiate between endocytosis and exocytosis.
24. Define diffusion.
25. If a red blood cell (~70% water) is placed in pure distilled water, what will happen to the cell and what type of solution is the cell submerged?
26. What is meant by "semi-permeable" membrane?

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