

Honors Biology A Final Exam Review Guide

Unit: Introduction to Biology

1. What is the name and function(s) for each of the following:
 - a. Hand lens
 - b. Dissecting tray
 - c. Dissecting pins
 - d. Forceps
 - e. Dissecting scissors
 - f. Dissecting probe
 - g. Scalpel
 - h. Graduated cylinder
 - i. Test tube
 - j. Beaker
 - k. Test tube rack
 - l. Bunsen burner
 - m. Dropper pipette
 - n. Pipette
 - o. Microscope
 - p. Microscope slide
 - q. Coverslip
 - r. Petri dish
 - s. Thermometer
 - t. Funnel
 - u. Metric ruler
2. Differentiate between quantitative and qualitative data
3. What is a hypothesis?
4. Differentiate between manipulated and responding variable.
5. List the steps of the scientific method, in order.
6. Name four scientific theories. Name two laws.
7. What is the difference between a theory and a law
8. List the levels of organization in order, from the simplest to the most complex. Give the definition of each level and an example.
9. List the 8 characteristics of life.
10. Give two examples each of unicellular and multicellular organisms.
11. Describe three examples of how cells are specialized for a particular function based on their shape. Be specific.
12. Distinguish between sexual and asexual reproduction. What is the advantage and disadvantage for each type?
13. Differentiate between the two types of asexual reproduction. Give an example for each type.
14. How is the life span of a living thing determined?
15. What are telomeres?
16. Name 4 ways DNA fingerprinting is used
17. What types of stimuli do living things respond to?
18. Give three examples of how a plant responds to its environment. Be specific.
19. Describe three examples of how animals maintain homeostasis. Be specific
20. Distinguish between anabolism and catabolism and give an example of each.
21. Know the parts of the microscope and their function(s).
22. Name at least one advantage and one disadvantage of using compound light microscopes.
23. Describe the two types of electron microscopes, discussing how they work, magnification abilities and disadvantages.
24. Explain the following biological techniques:
 - a. Cell fractionation
 - b. Centrifugation
 - c. Gel Electrophoresis
 - d. Cell Culture

Unit: Ecology

1. Humans are the most important source of environmental change on the planet. What are 3 human activities that affect/affected the biosphere?
2. Define ecology.
3. Put these levels of organization in order from the simplest to the most complex: ecosystem, biome, community, population, individual, biosphere. Define each word, too.
4. Briefly describe photosynthesis and chemosynthesis.
5. What are heterotrophs? Autotrophs?
6. Give 2 examples of organisms that undergo photosynthesis and 2 examples of organisms that undergo chemosynthesis.
7. What are cyanobacteria?
8. Define producer, consumer, herbivore, carnivore, omnivore, detritivore, and decomposer. Give 2 examples of each.
9. Define food chain. "Be able to interpret a food chain"
10. Define food web. "Be able to interpret a food web"

Honors Biology 2 Final Exam Study Guide

Jiyuan Zhang



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