

HOWARD UNIVERSITY
COLLEGE of ARTS and SCIENCES
COMPREHENSIVE SCIENCES

LIFE SCIENCES – UNIT VII: HOMEOSTASIS STUDY QUESTIONS

1. Define homeostasis.
2. Cite five factors that contribute to the establishment and maintenance of homeostasis.
3. Many people take vitamins. What's the role of vitamins in our bodies?
4. (a) What are enzymes? (b) Cite two locations of enzymes in cells.
5. Cite an enzyme that is: (a) found in mostly ALL types of living cells; (b) inhibited by high temperature.
6. (a) Define a hormone. (b) Give two plant and two animal hormones and give their function(s).
7. Cite two invertebrate hormones and give their function(s).
8. List a hormone that: (a) is comprised of lipid molecule; (b) is comprised of protein molecule; (c) raises blood sugar levels; (d) lower blood sugar levels.
9. Cite the specific functions of the following pigments: (a) melanin (b) hemoglobin (c) rhodopsin (d) chlorophyll.
10. Which macromolecules comprise the membrane?
11. Distinguish between diffusion and osmosis.
12. What are the organs that comprise the Central Nervous System (CNS)?
13. Cite two differences between the Central Nervous System and the Autonomic Nervous System/
14. (a) What is a synapse? (b) List two neurotransmitter substances.
15. (a) Distinguish between an antibody and an antigen. (b) What are the contents of a vaccine? The injection of a vaccine into plant or animal is designed to promote the production of _____.