

Exam 4 Review – Biochemistry

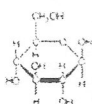
The exam will consist of 30 multiple choice questions using a scantron answer sheet.

This review is a guide to help you prepare for your exam. You should also review all notes, assignments and any other work completed in this unit. Simply memorizing the answers to the questions on this review will NOT guarantee success on this exam. You must thoroughly understand and be able to APPLY the information covered in this unit. ALL information covered in the unit is fair game for the exam, even if it was not specifically mentioned on this review.

Introduction

1. List the 6 essential elements contained in all living things.
2. List examples of organic molecules.
3. List examples of inorganic molecules.
4. Define dehydration synthesis. Include specific examples of molecules involved in the process.

Carbohydrates



6. List the functions of carbohydrates.
7. List ALL Examples of carbohydrates from the notes.
8. What is the monomer?
9. Be able to recognize the structure of a monomer of carbohydrate.
10. List examples of monosaccharides, disaccharides & polysaccharides.

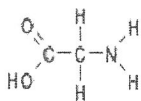
Lipids



11. List the functions of lipids.
12. The two structures that make up lipids or fats are-
13. List examples of lipids
14. Be able to recognize the structure of a lipid AND a fatty acid

Proteins

15. List the functions of proteins.
16. List examples of proteins.
17. The monomers that make up a polymer of protein is-
18. Be able to recognize a monomer of a protein.



Nucleic Acids

19. List the functions of nucleic acids.
20. What is the monomer? Identify the 3 parts.
21. Be able to recognize a monomer of a nucleic acid.



Enzymes

22. What type of biomolecule is an enzyme?
23. The primary function of an enzyme is-
24. What is a catalyst?
25. What does it mean for enzymes to be substrate specific?
26. List the factors that affect the activity of enzymes.

Also know this info from the previous unit:

- **Define nitrification.
- **Define denitrification.