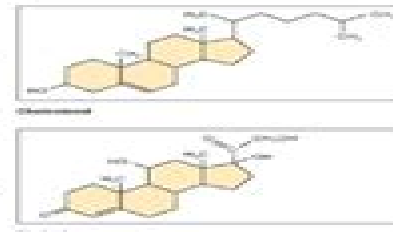
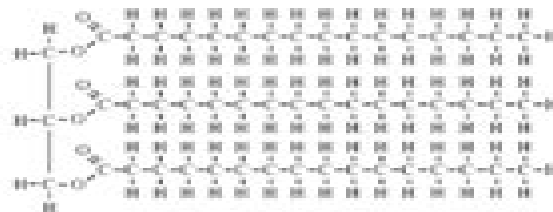
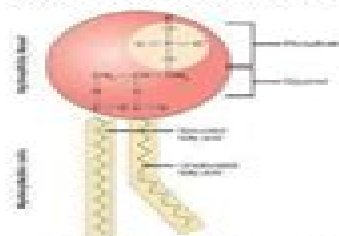


AP Biology Study Guide 2022
45 Multiple Choice Questions
1 Long Free Response Question (Parts A, B, and C)
YOU WILL NEED A CALCULATOR

I. Biochemistry

A. Be able to recognize the molecular structure of

1. Cellulose- Complex sugar, polymer, CHO , most abundant organic material on earth
2. Glycogen- Polymer of Glucose, energy storage, $\text{C}_{24}\text{H}_{42}\text{O}_{21}$
3. Phospholipid- Three fatty acid chains attached to phosphate group at the head, amphipathic, crucial to the phospholipid bilayer/cell membrane
4. Triglycerides- aka Fatty Acids, three fatty acid chains attached to glycerol head, body fat in animals
5. Steroid- All are cholesterol based, characterized by the 5-Carbon rings with a tail, examples include Cortisol, Testosterone, and Estrogen



6. Polypeptides- Building blocks of proteins, assembled from long chains of Amino Acids (polymer), can be a protein alone or quaternary structure will combine many to form a protein
7. Amino Acids- Building blocks of polypeptides, monomer, characterized by Amino Group (H_3N), Carboxyl Group (COOH), and R Group (differs between amino acids), can be polar or nonpolar, there are twenty amino acids, but nine are essential amino acids (cannot be produced by the body)

Amino Acid Structure



Adenosine Triphosphate (ATP)



8. ATP- Adenosine Triphosphate, main cellular source of energy
9. Glucose- Simple sugar, monomer, $\text{C}_6\text{H}_{12}\text{O}_6$

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Disha Experts



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Interviews Disha Experts,2019-09-06 **International Index to Periodicals** ,1924 **Readers' Guide to Periodical**
Literature ,1910 **Book Review Digest** ,1927 **Readers' Guide to Periodical Literature** Anna Lorraine
Guthrie,1915 An author subject index to selected general interest periodicals of reference value in libraries **Nuclear**
Science Abstracts ,1973 **Developing Assessments for the Next Generation Science Standards** National Research
Council,Division of Behavioral and Social Sciences and Education,Board on Science Education,Board on Testing and
Assessment,Committee on Developing Assessments of Science Proficiency in K-12,2014-05-29 Assessments understood as
tools for tracking what and how well students have learned play a critical role in the classroom Developing Assessments for
the Next Generation Science Standards develops an approach to science assessment to meet the vision of science education
for the future as it has been elaborated in A Framework for K 12 Science Education Framework and Next Generation Science
Standards NGSS These documents are brand new and the changes they call for are barely under way but the new
assessments will be needed as soon as states and districts begin the process of implementing the NGSS and changing their
approach to science education The new Framework and the NGSS are designed to guide educators in significantly altering
the way K 12 science is taught The Framework is aimed at making science education more closely resemble the way
scientists actually work and think and making instruction reflect research on learning that demonstrates the importance of
building coherent understandings over time It structures science education around three dimensions the practices through
which scientists and engineers do their work the key crosscutting concepts that cut across disciplines and the core ideas of
the disciplines and argues that they should be interwoven in every aspect of science education building in sophistication as
students progress through grades K 12 Developing Assessments for the Next Generation Science Standards recommends
strategies for developing assessments that yield valid measures of student proficiency in science as described in the new
Framework This report reviews recent and current work in science assessment to determine which aspects of the Framework
s vision can be assessed with available techniques and what additional research and development will be needed to support
an assessment system that fully meets that vision The report offers a systems approach to science assessment in which a
range of assessment strategies are designed to answer different kinds of questions with appropriate degrees of specificity
and provide results that complement one another Developing Assessments for the Next Generation Science Standards makes
the case that a science assessment system that meets the Framework s vision should consist of assessments designed to

support classroom instruction assessments designed to monitor science learning on a broader scale and indicators designed to track opportunity to learn New standards for science education make clear that new modes of assessment designed to measure the integrated learning they promote are essential The recommendations of this report will be key to making sure that the dramatic changes in curriculum and instruction signaled by Framework and the NGSS reduce inequities in science education and raise the level of science education for all students

Cumulated Index Medicus ,1965 *Learning Bio-Micro-Nanotechnology* Mel I. Mendelson,2013-01-04 Learning Bio Micro Nanotechnology is a primer on micro nanotechnology that teaches the vocabulary fundamental concepts and applications of micro nanotechnology in biology chemistry physics engineering electronics computers biomedicine microscopy ethics and risks to humankind It provides an introduction into the small world with a low fo

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