

**BIOLOGY 1A03 Midterm 1 Practice Questions**  
**McMaster Biology Society**

*Come out to our drop-in session on Wednesday October 2 from 6:30-8:00 pm in BSB 119 to ask all your questions about the Midterm 1 material!*

1. Which of the following best describes phospholipids? (Theme 1 Module 1)
  - a. Hydrophilic
  - b. Hydrophobic
  - c. **Amphipathic**
  - d. None of the above
  
2. Which of the following can be classified as a monosaccharide? (Theme 1 Module 2)
  - a. Lactose
  - b. Galactose
  - c. Maltose
  - d. Fructose
  - e. **B and D**
  
3. In eukaryotes, transcription occurs in the \_\_\_\_ and translation occurs in the \_\_\_\_\_. (Theme 1 Module 3)
  - a. Endoplasmic reticulum, Peroxisome
  - b. Peroxisome, Endoplasmic reticulum
  - c. Cytoplasm, Nucleus
  - d. **Nucleus, Cytoplasm**
  
4. Describe the relative solute concentration of red blood cells in a hypertonic environment. (Theme 1 Module 1)
  - a. **Higher solute concentration on exterior of cell relative to interior of cell**
  - b. Lower solute concentration on exterior of cell relative to interior of cell
  - c. Equal concentration on exterior and interior of cell

*Reasoning: In a Hypertonic solution/environment, there is a higher solute concentration on the exterior. This results in water to move out of the cell. If too much water diffuses out of the cell, the cell will shrivel.*

5. Temperature can influence membrane fluidity. Why do cold-adapted organisms tend to have more unsaturated phospholipids? (Theme 1 Module 1)
  - a. Unsaturated fats do not have "kinks" in their tails and thus press in on each other to maintain a favourable dense and rigid membrane.
  - b. **Unsaturated fats have "kinks" in their tails that push adjacent phospholipid**

# Biology Midterm Practice Exam With Answers

**Douglas G. Fratianne**



## **Biology Midterm Practice Exam With Answers:**

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*Scientific Integrity* Francis L. Macrina,2014-07-22 This widely adopted textbook provides the essential content and skill building tools for teaching the responsible conduct of scientific research Scientific Integrity covers the breadth of concerns faced by scientists protection of animal and human experimental subjects scientific publication intellectual property conflict of interest collaboration record keeping mentoring and the social and ethical responsibilities of scientists Learning activities and resources designed to elucidate the principles of Scientific Integrity include Dozens of highly relevant interactive case studies for discussion in class or online Numerous print and online resources covering the newest research guidelines regulations mandates and policies Discussion questions role playing exercises and survey tools to promote critical thought Documents including published rules of conduct sample experimentation protocols and patent applications The new edition of Scientific Integrity responds to significant recent changes new mandates policies laws and other developments in the field of responsible conduct of research Dr Macrina plants the seeds of awareness of existing changing and emerging standards in scientific conduct and provides the tools to promote critical thinking in the use of that information Scientific Integrity is the original turnkey text to guide the next generations of scientists as well as practicing researchers in the essential skills and approaches for the responsible conduct of science

**Preparing Students for Testing and Doing Better in School** Rona F. Flippo,2008-01-31 Improve students test taking success by teaching effective time management strategies organizational skills note taking techniques ways to handle test anxiety and methods for taking essay and objective tests

*Departures* Lorna J. Cook,2005 The VanderZees seem like an average American family Malcolm a professor at a small Midwestern college and Esme a lapsed artist are raising four kids in a chaotic but loving home Yet in Lorna J Cook s charming and wryly comic first novel the individuals in this eccentric clan also dwell in richly imagined worlds of their own Poised at the edge of adulthood seventeen year old Suzen VanderZee feels herself to be on the verge of something extraordinary and aches for her future to begin Fifteen year old Evan is bored with his small town life and dreams of travel while at the same time is mesmerized by Soci the new girl at school Hallie perhaps the most secretive of the lot spends hours in her room contemplating life with her pet rat Cupcake And Aimee the youngest is convinced that she can fly after a sudden and frighteningly close brush with death As Suzen realizes a crush may be the start of a serious relationship and Evan considers running away with Soci the author illustrates the exhilaration and anxiety the two teenagers experience as they teeter on the brink of adulthood

BOOK JACKET [Studying and Learning in a High-Stakes World](#) Rona F. Flippo,2014-12-11 Designed to help middle and high school teachers as well as

students new to the rigor of college Studying and Learning in a High Stakes World incorporates test preparation into classrooms without asking teachers to teach to the test Instead it enables teachers to focus on course content while simultaneously providing high quality scaffolded study strategies Whether they are facing a high stakes exam or merely preparing students for a chapter quiz the strategies modeled in this book allow teachers to use tests as platforms for students learning This book is divided into three parts that address how to Get students organized and in the right frame of mind to study learn and take tests Study for essay and objective tests Answer essay and objective questions and take tests Studying and Learning features close learning strategies ESL Best Practices and alignment to the Common Core State Standards in order to help teachers make tests work for them **The Confident Student** Carol C. Kanar,2001 **Introduction to**

**Biology** Alan Axelrod,1999 A complete guide with questions answers and practice tests in the field of biology *The Interdisciplinary Reader* James Dale Williams,1992 **Achieving Personal & Academic Success** Trent A. Petrie,Kimberly Bobinski Edwards,1998 **The American Biology Teacher** ,2003 **Instructor's Manual with Test Items to Accompany Biology, by Leland G. Johnson** Douglas G. Fratianna,1987 Science John Michels (Journalist),2011

**College Board Achievement Test in Biology** Lawrence Solomon,1983-12 Sample tests provide a review of aspects of biology such as cell structure reproduction genetics evolution biochemistry and the nervous system *TestWise* Rona F. Flippo,2000 This second edition of the longtime favorite offers students a refresher course on successful test taking Ideal for students who struggle with taking tests TestWise covers essay multiple choice and short answer tests It include strategies for better note taking in class study tim management when and where to guess on a test and other tools to improve test skills and encourage success A workbook that any student can use to improve his or her test taking abilities Listening by Doing Kathleen M. Galvin,1985 Grade level 7 8 9 10 11 12 e i s t *Taking the Anxiety Out of Taking Tests* Susan Johnson,1997 Guide for high school and college students Practical suggestions to deal with distractions leran how to focus get the most out of classes and study time and approach exams with confidence **Complete Preparation for the MCAT** Williams & Wilkins Review,1998-04 Here is the most respected test prep book for the Medical College Admission Test you can buy featuring an active learning approach for a better understanding of the exam s content and a better chance for success Unique to this guide are coverage of all recent changes in the MCAT plus a step by step plan for sharpening cognitive skills developing problem solving skills and critical thinking This thorough guide replaces expensive test preparation courses while giving students exactly what they need to get ready for the MCAT **Testing and Evaluation for the Sciences in the Secondary School** William D. Hedges,1966 **Bulletin University Medical School of Debrecen** Debreceni Orvostudományi Egyetem (Hungary). English Program,1999

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