

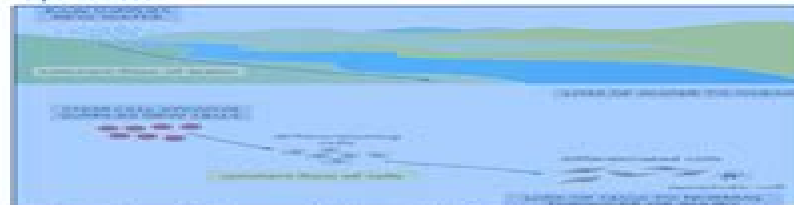
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BIO-333 Chapter 22 Guide 7c

1. (pgs. 1279-1281, figs. 22-1, 22-2, and 22-3) Define stem cell. How is tissue homeostasis comparable to a river? What are the defining characteristics of stem cells? Define the following terms: progenitor cell, transit-amplifying cell, terminally differentiated, multipotent, and unipotent.

**Stem Cell:** Undifferentiated cell that can continue dividing indefinitely, throwing off daughter cells that can either commit to differentiation or remain a stem cell

- This can be compared to a river because just like in a river the water looks the same flow day to day, but its downstream flow is never the same, just like in stem cells- their characteristic architecture of a self-renewing tissue is maintained even though the cell population is always changing, with differentiated cells lost "downstream", and stem cell producing new cells "upstream"



Some characteristics of stem cells include (1) they can replenish themselves as stem cells, generally throughout a lifetime- also called self-renewal. (2) they can produce differentiated cells

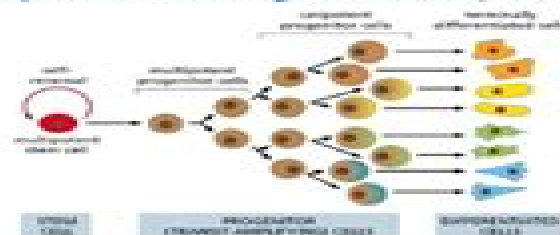
**Progenitor cell:** intermediate cell type that is committed to a differentiated pathway but continues to proliferate, thereby generating greater numbers of differentiated cells.

- these are also called **transit amplifying cells** because their divisions serve to amplify the number of differentiated cells that ultimately result from each stem-cell division

**Terminally differentiated:** when a cell reaches the end of its differentiation pathway and does not divide again

**Multipotent:** When a stem-cell or progenitor cell generates multiple differentiated cell types

**Unipotent:** When it generates only one differentiated cell type



# Bio Ch 22 Study Guide Answers

**Russell C. Hollingsworth**



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**Student Study Guide for Campbell's Biology Second Edition** Martha R. Taylor, 1990      *Ssg- Human Biology 6E*  
*Student Study Guide* Chiras, 2008-02 Human Biology Sixth Edition provides students with a clear and concise introduction to the general concepts of mammalian biology and human structure and function With its unique focus on health and homeostasis Human Biology enhances students understanding of their own health needs and presents the scientific background necessary for students to think critically about biological information they encounter in the media The completely revised content and exceptional new art and photos provide students with a more user friendly text while excellent learning tools maximize comprehension of material

**Study Guide to Accompany Biology by Karen Arms and Pamela S. Camp** Russell C. Hollingsworth, 1979      **College Biology II** James Hall Zimmerman, 1963      *SAT Subject Test: Biology E/M Crash Course* Lauren Gross, 2013-06-10 SAT Biology E M Subject Test Crash Course Gets You a Higher Score in Less Time Our Crash Course is perfect for the time crunched student the last minute studier or anyone who wants a refresher on the subject Are you crunched for time Have you started studying for your SAT Biology Subject Test yet How will you memorize everything you need to know before the exam Do you wish there was a fast and easy way to study for the test AND raise your score If this sounds like you don't panic SAT Biology E M Crash Course is just what you need Crash Course gives you Targeted Focused Review Study Only What You Need to Know The Crash Course is based on an in depth analysis of the SAT Biology E M course description and actual test questions It covers only the information tested on the exam so you can make the most of your valuable study time Our easy to read format gives you a crash course in cellular and molecular biology ecology genetics organismal biology evolution and diversity Expert Test taking Strategies Our experienced biology teacher shares test tips and strategies that show you how to answer the questions you'll encounter on test day By following our expert tips and advice you can raise your score Take REA's Online Practice Exams After studying the material in the Crash Course go online and test what you've learned Two practice exams one for Biology E and one for Biology M feature timed testing diagnostic feedback detailed explanations of answers and automatic scoring analysis The exams are balanced to include every topic and type of question found on the actual SAT Biology E M Subject Test so you know you're studying the smart way Whether you're cramming for the test at the last minute looking for extra review or want to study on your own in preparation for the exam this is one study guide every SAT Biology student must have When it's crucial crunch time and your exam is just around the corner you need SAT Biology E M Crash Course      *Student Study Guide for Biology [by] Campbell/Reece/Mitchell* Martha R. Taylor, 1999      **Study Guide: Sg Concepts in Biology** Eldon D. Enger, Enger, Frederick C. Ross, 2003      *Study Guide to Accompany Biology, the Science of Life, Third Edition* W. J. Leverich, 1991      **Study Guide to Accompany Biology: A Journey into Life** Russell V. Skavaril, 1991      *Student Study Guide for Biology [by] Campbell/Reece* Martha R. Taylor, 2002 Marty Taylor Cornell University Provides a concept map of

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