

BIO CH 9 STUDY GUIDE

- **Why don't cells grow as large as they want? What problem do they face as their size increases?**
 - Larger cells place more demand on its DNA
 - Larger cells are less efficient in moving nutrients and waste
- **Understand how surface-area to volume ratio helps us to understand cell size**
 - Cells with a high surface area to volume ratio is able to sustain itself more easily
 - smaller cells transport substances easier
- **Contrast asexual and sexual reproduction**
 - Asexual-
 - one parent
 - uses fission
 - very little change of genetic variation
 - Sexual-
 - Two parents
 - uses meiosis
 - genetic variation in offspring
 - Both-
 - Forms of reproduction
 - involves plants, fungi and animals
 - produces offspring
- **Understand anatomy of a chromosome**
 - Dna - genetic code / double helix
 - histone protein - proteins presents in the chromatins
 - chromatin - long, coiled, thread-like structure / relaxed form of DNA in the nucleus of the cell
 - coils -
 - nucleosome -
 - sister chromatids - structure that contains identical DNA copies that is formed during DNA replication
 - centromere - cell structure that joins two sister chromatids / holds chromosomes together
 - chromosomes - structure that contains DNA and carries genetic material from one generation to another / made up of chromatin
 - complexity is not related to chromosome number
 - 4 chromosomes = 8 chromatids
 - Bacteria is a prokaryote and has no nucleus
- **Why is the cell cycle important?**

Bio Ch 33 Study Guide Answers

Arshad Iqbal



Bio Ch 33 Study Guide Answers:

Study Guide to Neuropsychiatry and Behavioral Neurosciences Robert E. Hales, James A. Bourgeois, Narriman C. Shahrokh, 2008 Study Guide to Neuropsychiatry and Behavioral Neurosciences is a question and answer companion that allows you to evaluate your mastery of the subject matter as you progress through the corresponding textbook The Study Guide is made up of 246 questions divided into individual quizzes of 5-10 questions each that correspond to chapters in The American Psychiatric Publishing Textbook of Neuropsychiatry and Behavioral Neurosciences Fifth Edition Questions are followed by an Answer Guide that references relevant text including the page number in the Textbook to allow quick access to needed information Each answer is accompanied by a discussion that addresses not only the correct response but also explains why other responses are not correct The Study Guide's companion the fifth edition of The American Psychiatric Publishing Textbook of Neuropsychiatry and Behavioral Neurosciences expanded its focus on the neurosciences to encompass the great strides that have been made in the basic and clinical sciences First published as the only multiauthored comprehensive textbook in the field the Textbook has been updated to reflect the explosive growth in the neurosciences structural and functional brain imaging electrophysiology and electrodiagnosis cell and molecular biology genetics and neuropsychopharmacology increasing the already impressive clinical utility and practicality of this seminal work The contributors all recognized experts cover basic principles of neuropsychiatry assessment symptomatologies specific disorders treatments and special topics such as ethical legal and educational certification issues

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