

## 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?

## Answers To Ch 50 Guide Bio

**Neil A. Campbell**

## Answers To Ch 50 Guide Bio:

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*Study Guide, Answer Book to Accompany Organic Chemistry* Alan S. Wingrove, Robert L. Caret, 1981 *Teachers' Manual to Accompany New Civic Biology* George

William Hunter, 1927 **Human Biology** Sylvia S. Mader, 1992 This market leading human biology text emphasizes the relationships of humans to other living things Human Biology remains user friendly relevancy and pedagogy are among its strengths In this edition as in previous editions each chapter presents the topic clearly and distinctly so that students will feel capable of achieving an adult level of understanding Detailed high level scientific data and terminology are not included because Dr Mader believes that true knowledge consists of working concepts rather than technical facility

**Curriculum Review**, 1978

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Within the pages of "**Answers To Ch 50 Guide Bio**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives.

Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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