

## Chapter 16 Study Guide

### 1. Describe the genetic material of prokaryotes, eukaryotes, viruses and plasmid

#### a. Prokaryotes

- i. No nucleus
- ii. Single circular chromosome composed of double stranded DNA
- iii. Code as  $4 \times 10^6$  as in *E. coli*
- iv. Codes for 3000 genes

#### b. Eukaryotes

- i. Located in the nucleus
- ii. Nuclear envelope separates it from the rest of the cell
- iii. Eukaryotic DNA is linear and distributed in more than one chromosome
- iv. DNA is bound to proteins (Histones & nonhistones) = protein DNA complex called chromatin
- v. Haploid human nucleus
  1. Egg
  2. Sperm
- vi.  $3 \times 10^9$  bp
- vii. Diploid cells in somatic cells contain  $6 \times 10^9$
- viii. Codes for 22,000-33,000 genes
- ix. Human DNA localized in 46 chromosomes
- x. Measures about 6 ft

#### c. Viruses

- i. Infectious
- ii. DNA (smallpox, chicken pox, papilloma virus, herpes virus)
- iii. RNA (AIDS, Influenza, SARS, Ebola)
- iv. Contains proteins and protein coat
- v. Lack system for replication, production of RNA and synthesis of proteins
- vi. In order to infect other cells, and use their DNA, RNA and protein synthesizing machinery to reproduce
- vii. Infect both eukaryotic and prokaryotic cells

#### d. Plasmids

# Viruses And Prokaryotes Study Guide Answers

**Disha Experts**



## **Viruses And Prokaryotes Study Guide Answers:**

**Life: The Science of Biology Study Guide** William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

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**Barron's Science 360: A Complete Study Guide to Biology with Online Practice** Barron's Educational Series, Gabrielle I. Edwards, Cynthia Pfirrmann, 2021-09-07 Barron's Science 360 provides a complete guide to the fundamentals of biology Whether you're a student or just looking to expand your brain power this book is your go to resource for everything biology Back cover

**AP Biology Study Guide** Sundar Nathan, 2009-11 Sundar Nathan received a Bachelor's degree in Electrical Engineering from Anna University Chennai India and a Masters degree in Biomedical Engineering from the University of Texas at Austin Working for over a year with a team of talented Phds MPhils and MScs from all over the world Sundar compiled this comprehensive study guide to help students prepare diligently understand the concepts and Crush the AP Bio Test

*What Is Life? A Guide to Biology W/Prep-U* Jay Phelan, 2009-04-30 Jay Phelan's What is Life A Guide to Biology is written in a delightfully readable style that communicates complex ideas to non biology majors in a clear and approachable manner After reading Phelan's book students will understand why they would want to know and talk about science His skillful style includes asking stimulating questions called Q questions which encourage the student to keep reading to find the answer and will illuminate just how relevant science is to their life

*Study Guide and Solutions Manual* Bruce A. Chase, Peter J. Russell, 2005-06 This student resource contains chapter outlines of text material solutions to all end of chapter problems key terms suggestions for analytical approaches problem solving strategies and a variety of additional questions for student practice Also featured are questions that relate to chapter specific animations and iActivities

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