

## AP Biology Practice Exam 21

### Multiple Choice Questions

1. **Which of the following best describes a plasmid?** A) A mobile genetic element found primarily in eukaryotic cells. B) A small, circular DNA molecule found in bacteria that is separate from the chromosomal DNA. C) A structure within the nucleus that aids in cell division. D) An enzyme that helps in the replication of DNA.
2. **Which cellular process is responsible for the breakdown of organic molecules to release energy stored in ATP?** A) Photosynthesis B) Fermentation C) Cellular respiration D) Nitrogen fixation
3. **Which organelle is responsible for packaging and sorting proteins for secretion?** A) Smooth endoplasmic reticulum B) Golgi apparatus C) Lysosomes D) Mitochondria
4. **What is the primary role of mRNA in cells?** A) To carry genetic information from the DNA to the ribosome B) To catalyze the formation of peptide bonds C) To store genetic information D) To capture and convert energy
5. **What type of bond is primarily responsible for the structure of water and its solvent properties?** A) Covalent bonds B) Hydrogen bonds C) Ionic bonds D) Van der Waals interactions
6. **What process directly uses both ATP and NADPH to convert CO<sub>2</sub> into glucose?** A) Glycolysis B) Krebs cycle C) Calvin cycle D) Light-dependent reactions
7. **In an ecosystem, what is a trophic level?** A) A community of organisms that share a similar diet and nutritional needs B) The sequence of organisms through which energy flows in an ecosystem C) A specific level of organization within an ecosystem where nutrient cycling occurs D) The level at which an organism feeds in a food web
8. **Which enzyme is responsible for relaxing supercoiling ahead of the replication fork?** A) DNA polymerase B) Helicase C) Topoisomerase D) Ligase
9. **What is the significance of sexual reproduction in the evolution of populations?** A) It reduces genetic diversity within a population. B) It allows for genetic recombination, increasing genetic diversity. C) It ensures that offspring are identical to the parent. D) It stabilizes genetic traits without variation.
10. **Which process in the nitrogen cycle converts ammonia into nitrites and nitrates?** A) Ammonification B) Denitrification C) Nitrification D) Nitrogen fixation

### Answer Key for Practice Exam 21:

1. **B) A small, circular DNA molecule found in bacteria that is separate from the chromosomal DNA.**
2. **C) Cellular respiration**
3. **B) Golgi apparatus**
4. **A) To carry genetic information from the DNA to the ribosome**
5. **B) Hydrogen bonds**
6. **C) Calvin cycle**
7. **D) The level at which an organism feeds in a food web**

# 2008 Ap Bio Exam Answers

**Michael Seilmaier**



## 2008 Ap Bio Exam Answers:

**Cracking the Act 2008** Geoff Martz, Kim Magloire, Theodore Silver, 2008-01-15 A guide to preparing for the ACT based on the Princeton Review coaching course offers advice on test taking specific suggestions for each section of the exam and four full length practice exams with answers and explanations [Princeton Review AP Biology Prep 2021](#) The Princeton Review, 2020-08 Make sure you re studying with the most up to date prep materials Look for the newest edition of this title The Princeton Review AP Biology Prep 2022 ISBN 9780525570530 on sale August 2021 Publisher s Note Products purchased from third party sellers are not guaranteed by the publisher for quality or authenticity and may not include access to online tests or materials included with the original product **Princeton Review AP Biology Prep, 2022** The Princeton Review, 2021-08-03 Make sure you re studying with the most up to date prep materials Look for the newest edition of this title The Princeton Review AP Biology Prep 2023 ISBN 9780593450666 on sale August 2022 Publisher s Note Products purchased from third party sellers are not guaranteed by the publisher for quality or authenticity and may not include access to online tests or materials included with the original product **Guide to College Majors 2008** Princeton Review (Firm), 2008-02-05 Fully revised and updated for 2008 this resource includes the most current information available on more than 350 of the most popular majors Each profile includes an overview of the major career options and earning potential sample college curricula and more [Princeton Review AP Biology Premium Prep 2022](#) The Princeton Review, 2021-08 PREMIUM PRACTICE FOR A PERFECT 5 WITH THE MOST PRACTICE ON THE MARKET Ace the 2022 AP Biology Exam with this Premium version of The Princeton Review s comprehensive study guide Includes 6 full length practice exams more than any other major competitor plus thorough content reviews targeted test strategies and access to online extras Techniques That Actually Work Tried and true strategies to help you avoid traps and beat the test Tips for pacing yourself and guessing logically Essential tactics to help you work smarter not harder Everything You Need to Know to Help Achieve a High Score Fully aligned with the latest College Board standards for AP Biology Comprehensive content review for all test topics Engaging activities to help you critically assess your progress Access to study plans a handy list of key terms and concepts helpful pre college information and more via your online Student Tools account Premium Practice for AP Excellence 6 full length practice tests 4 in the book 2 online with detailed answer explanations Practice drills at the end of each content review chapter End of chapter key term lists to help focus your studying *Biology, Zoology & Botany Solved Papers* YCT Expert Team, 2023 24 All Teaching Exams Biology Zoology Botany Solved Papers **Guide to College Visits** Princeton Review, 2007-04-10 A practical handbook covers everything needed to plan a successful visit to campuses across the country with information on nearby accommodations for every budget the best and worst times to visit itineraries and campus tours *The Publishers Weekly*, 2008 **AI First** Adam Brotman, Andy Sack, 2025-06-24 AI is going to change brand strategy and marketing forever Are you ready What does the rapid rise and astonishing rate of improvement of AI mean for brands in the

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