

Notes on the AP Biology Practice Exam

Multiple-Choice Section

Course Framework Alignment and Rationales

Question 1

Skill	Learning Objective	Topic
1.A: Describe biological concepts and/or processes.	SY1-1.B: Describe the properties of the monomers and the type of bonds that connect the monomers in biological macromolecules.	Introduction to Biological Macromolecules
(A)	Incorrect. The removal of water is not involved in breaking the bond between sugar monomers.	
(B)	Incorrect. Hydrolysis of carbohydrates does not result in the formation of bonds between sugar molecules. Additionally, it does not involve the removal of a water molecule.	
(C)	Correct. The hydrolysis of carbohydrates involves the addition of a water molecule, which breaks the covalent bond between monomers.	
(D)	Incorrect. Although hydrolysis does involve the addition of a water molecule, hydrolysis does not result in the formation of bonds between sugar molecules.	

Question 2

Skill	Learning Objective	Topic
1.A: Describe biological concepts and/or processes.	EST-1.L: Describe the characteristics of DNA that allow it to be used as the hereditary material.	DNA and RNA Structure
(A)	Incorrect. There are only four different types of nucleotide bases that can be incorporated and the number of types doesn't contribute to its usefulness as hereditary material.	
(B)	Incorrect. Although nucleotide bases could be metabolized to provide energy, this would not help maintain the sequence of bases making it useful as hereditary material.	
(C)	Incorrect. The random replacement of nucleotide bases in a DNA molecule would destroy the information contained in the sequence.	
(D)	Correct. The pairing of specific bases allows one strand to be used as a template for replicating the other strand, ensuring that DNA can be replicated with a relatively high accuracy.	

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R Sandford

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Cracking the AP Biology Exam Princeton Review,Kim Magloire,2009 Provides techniques for achieving high scores on the AP biology exam and includes two full length practice tests AP Biology For Dummies Peter J. Mikulecky,Michelle Rose Gilman,Brian Peterson,2008-06-02 Relax The fact that you're even considering taking the AP Biology exam means you're smart hard working and ambitious All you need is to get up to speed on the exam's topics and themes and take a couple of practice tests to get comfortable with its question formats and time limits That's where AP Biology For Dummies comes in This user friendly and completely reliable guide helps you get the most out of any AP biology class and reviews all of the topics emphasized on the test It also provides two full length practice exams complete with detailed answer explanations and scoring guides This powerful prep guide helps you practice and perfect all of the skills you need to get your best possible score And as a special bonus you'll also get a handy primer to help you prepare for the test taking experience Discover how to Figure out what the questions are actually asking Get a firm grip on all exam topics from molecules and cells to ecology and genetics Boost your knowledge of organisms and populations Become equally comfortable with large concepts and nitty gritty details Maximize your score on multiple choice questions Craft clever responses to free essay questions Identify your strengths and weaknesses Use practice tests to adjust your exam taking strategy Supplemented with handy lists of test taking tips must know terminology and more AP Biology For Dummies helps you make exam day a very good day indeed **5**

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