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Old ap biology exams

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Adapt — remix, transform, and build upon the material for any purpose, even commercially. The licensor cannot revoke these freedoms as long as you follow the license terms. Attribution — You must give appropriate credit , provide a link to the license, and indicate if changes were made . You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. ShareAlike — If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original. No additional restrictions — You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits. You do not have to comply with the license for elements of the material in the public domain or where your use is permitted by an applicable exception or limitation. No warranties are given. The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. Past papers by exam boardPast papers by exam boardPast papers by exam boardPast papers by exam boardPast papers by exam boardPast papers by exam boardPast papers by exam boardPast papers by exam boardPast papers by exam boardPast papers by exam board**Updated on 1/31/24 to include the 2022-23 FRQ exams!***If you are looking for past AP Biology free-response questions (FRQs) that are organized by topic, then you have come to the right place. In this post, we have linked every freely available past FRQ there is from College Board and organized it into the following major topics of AP Biology. (Please note that we are not associated with College Board and are simply sharing the resources they have made available to students.) BiochemistryMetabolism & EnergeticsCellsGeneticsEvolutionPhysiology (note that this topic will not be tested on the official AP Biology exam this year in 2021, although many questions about physiology could also cover concepts that will be tested)EcologyExperiment design & data analysisIntensively doing and reviewing practice questions is proven to be much more effective than spending hours studying. Check out our AP Bio Practice Portal, which is an easy-to-use database of 300+ AP-style MCQ and FRQ practice questions. Students love the Practice Portal because it includes answers and explanations for every problem, tracks progress, and saves time from Googling practice problems.As noted above, the diversity of organisms, plants, and physiology will not be on the 2021 AP Biology exam. However, the exam could include questions about topics or hypothetical situations that are related to those topics. One great example is cell communication, which is used in multiple systems inside our bodies. Let’s say an FRQ was to appear about the immune system and how the immune cells communicate. That would be fair game as long as the question focuses on the cell signaling part, not the details of the immune system. If the question requires some background knowledge about the immune system, it will be provided.If you want to do a whole practice FRQ set just like the ones on the real exam (which we highly recommend), all the freely available past FRQs by year are available here on the College Board website. Tip: time yourself and take the practice FRQ set in an environment that mimics how you imagine your actual testing environment to be. If you would like to focus on a particular topic, then the section coming up is for you. Some FRQs will show up under multiple topics because they truly do test students’ understanding of multiple different topics. Tip: Whether you are doing individual free-response questions or doing a full problem set in one go, it is extremely important and effective to do test corrections! Don’t only consult the scoring guidelines and model responses when you have no clue how to answer a question. You should be checking them for all the FRQs you do. When you find a difference between your answer and the scoring guidelines, it is important that you pause and analyze why your response is incorrect. Take the time to understand your mistakes and see how your answer could have been better. This will help you boost your scores the most efficiently.Below are the linked FRQs organized by topic. The header for each topic will also lead you to the corresponding study guide that will help you review the unit in detail!Basic and organic chemistry concepts do not come up often on the FRQs (but of course, it’s better to be prepared). The properties of water and macromolecules come up occasionally. Includes cell structure and function, cell transport and the proteins involved (study guide coming soon!)This unit includes enzymes, cellular respiration, and photosynthesis.2023 #2 (cell respiration & photosynthesis)2021 #3 (cell respiration) 2019 #3 (cell respiration)2018 #2 (cell respiration)2017 #7 (cell respiration)2015 #2 (cell respiration)2013 #2 (photosynthesis) and 4 (cell respiration & photosynthesis)2012 #2 (cell respiration) and 4 (cell respiration & photosynthesis)2005 #1 (cell respiration & photosynthesis)This topic has shown up more frequently and in more difficult FRQs in recent years, especially cell communication. The trend will most likely continue so definitely prioritize reviewing and practicing this topic!2023 #1 (cell communication)2022 #1 (cell communication)2022 #2 (cell cycle, meiosis)2021 #1 (cell communication) 2019 #4 (cell communication)2018 #8 (cell communication)2017 #8 (cell communication)2015 #5 and 7 (cell communication)2013 #8 (cell communication)2010 #1 (cell communication)Genetics Pt 1 and Genetics Pt 2 Study GuidesThis section includes the classic Mendelian genetics, with Punnett squares, crosses, and Mendel’s laws. It also includes DNA replication, protein synthesis, and gene expression regulation for both eukaryotes and prokaryotes.2023 #6 (gene expression)2022 #6 (protein synthesis, gene expression)2021 #6 (gene expression)2021 #2 (heredity + pedigrees)2014 #2 (immune system) and 6 (musculoskeletal system) and 7(study guide coming soon!)This is an additional section that isn’t focused on any particular topic or has significant data analysis involved. While most FRQs do pertain to a specific topic(s), some are simply there to test your knowledge of experimental design and understanding of statistical concepts such as performing Chi-Square tests and interpreting error bars on graphs. These types of questions have become more and more common on the AP exam, so it is important to feel comfortable and confident with them.2022 #3 (experiment design)Hope these organized FRQs saved you some time so you can focus more on actually doing them and practicing! You can easily share this post with friends who may find it helpful as well.Do a lot of FRQ practice problems and review the answers! Practice is key, especially for a subject as dense as AP Bio. Check out the AP Bio Practice Portal, which is our popular vault of 300+ AP-style MCQ and FRQ problem sets with answers and explanations for every question. Don’t waste any more time Googling practice problems or answers - try it out now! What are your chances of acceptance?+ add schoolUnweighted GPA: 3.7Low accuracy (4 of 18 factors) Advanced Placement course and exam This article may rely excessively on sources too closely associated with the subject, potentially preventing the article from being verifiable and neutral. Please help improve it by replacing them with more appropriate citations to reliable, independent sources. (May 2024) (Learn how and when to remove this message) This article is part of a series onAdvanced Placement Exams • Awards Current subjects African American Studies Art and Design (2-D, 3-D, and Drawing) Art History Biology Calculus (AB and BC) Chemistry Chinese Language and Culture Comparative Government and Politics Computer Science A Computer Science Principles English Language and Composition English Literature and Composition Environmental Science European History French Language and Culture German Language and Culture Human Geography Italian Language and Culture Japanese Language and Culture Latin Macroeconomics Microeconomics Music Theory Physics 1: Algebra-Based Physics 2: Algebra-Based Physics C: Electricity and Magnetism Physics C: Mechanics Precalculus Psychology Research Seminar Spanish Language and Culture Spanish Literature and Culture Statistics U.S. Government and Politics U.S. History World History: Modern In development • Former subjectsvte Advanced Placement (AP) Biology (also known as AP Bio) is an Advanced Placement biology course and exam offered by the College Board in the United States. For the 2012–2013 school year, the College Board unveiled a new curriculum with a greater focus on “scientific practices”.[1] This course is designed for students who wish to pursue an interest in the life sciences. The College Board recommends successful completion of high school biology and high school chemistry[2] before commencing AP Biology, although the actual prerequisites vary from school to school and from state to state. The exam covers the following 8 units. The percentage indicates the portion of the multiple-choice section of the exam focused on each content area:[3] Topic Percent Chemistry of Life 8–11% Cell Structure and Function 10–13% Cellular Energetics (photosynthesis and cellular respiration) 12–16% Cell Communication and Cell Cycle 10–15% Heredity 8–11% Gene Expression and Regulation 12–16% Natural Selection 13–20% Ecology 10–15% The course is based on and tests six skills, called scientific practices which include: Topic Percent Concept Explanation 8–11% Visual Representations 10–13% Question and Method 12–16% Representing and Describing Data 10–15% Statistical Tests and Data Analysis 8–11% Argumentation 12–16% In addition to the topics above, students are required to be familiar with general lab procedure. Students should know how to collect data, analyze data to form conclusions, and apply those conclusions. Students are allowed to use a four-function, scientific, or graphing calculator.[4] The exam has two sections: a 90 minute multiple choice section and a 90 minute free response section. There are 60 multiple choice questions and six free responses, two long and four short. Both sections are worth 50% of the score. Score 2013[5] 2014[6] 2015[7] 2016[8] 2017[9] 2018[10] 2019[11] 2020[12] 2021[13] 2022[14] 2023[15] 2024[16] 5 5.5% 6.6% 6.4% 6.6% 6.4% 7.1% 7.2% 9.5% 7.4% 15.0% 14.3% 16.8% 4 21.6% 22.4% 22.1% 21.0% 21.0% 21.5% 22.2% 22.7% 19.4% 23.1% 23.0% 23.1% 3 36.2% 35.2% 35.9% 33.6% 36.7% 32.9% 35.3% 36.9% 32.4% 29.7% 27.2% 28.4% 2 29.3% 27.1% 27.5% 28.8% 27.5% 28.5% 26.6% 24.1% 30.0% 21.6% 23.6% 21.7% 1 7.4% 8.7% 8.2% 10.1% 8.4% 10% 8.8% 6.9% 10.8% 10.5% 12.0% 10.0% % of scores 3 or higher 63.3% 64.2% 64.3% 61.1% 64.1% 61.5% 64.7% 69.1% 59.2% 67.9% 64.4% 68.3% Mean 2.88 2.91 2.91 2.85 2.90 2.87 2.93 3.04 2.83 3.11 3.04 3.15 Standard deviation 1.01 1.05 1.03 1.07 1.03 1.08 1.06 1.06 1.09 1.21 1.23 1.22 Number of students 203,189 213,294 223,479 238,080 254,270 259,663 260,816 233,444 230,527 237,338 239,470 260,062 Biology, AP Edition by Sylvia Mader (2012, hardcover ISBN 0076620042) Life: The Science of Biology (Sadava, Heller, Orians, Purves, and Hillis, ISBN 978-0-7167-7671-0) Campbell Biology AP Ninth Edition (Reece, Urry, Cain, Wasserman, Minorsky, and Andrew Jackson ISBN 978-0131375048) Glossary of biology AP Bio (TV Show) ^ “AP Biology Curriculum Framework ^ “AP Biology”. 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