

AP[®] BIOLOGY 2015 SCORING GUIDELINES

Question 2 (continued)

(b) Use each of the following observations to **justify** the claim that glycolysis first occurred in a common ancestor of all living organisms.

- Nearly all existing organisms perform glycolysis.
- Glycolysis occurs under preconditions on Earth.
- Glycolysis occurs only in the cytosol.

Observation	Justification (1 point each box; 3 points maximum)
Nearly all existing organisms perform glycolysis.	• That glycolysis occurs in all tested early- and late-evolving organisms suggests it is highly conserved. • Glycolysis provided a pathway for evolution without having passed on to descendants.
Glycolysis occurs and is prebiotic conditions.	Origin of glycolysis preceded other atmospheric oxygen/photolysis events.
Glycolysis occurs only in the cytosol.	Origin of glycolysis preceded cell types with membrane-bound organelles/prokaryotes/eukaryotes.

(c) A researcher estimates that, in a certain organism, the complete metabolism of glucose produced 30 molecules of ATP for each molecule of glucose. The energy released from the total oxidation of glucose under standard conditions is 686 kcal/mol. The energy released from the hydrolysis of ATP to ADP and inorganic phosphate under standard conditions is 7.3 kcal/mol. **Calculate** the amount of energy available from the hydrolysis of 30 moles of ATP. **Calculate** the efficiency of total ATP production from 1 mole of glucose in this organism. **Describe** what happens to the excess energy that is released from the metabolic form of glucose.

	Calculations/descriptions (1 point each box; 3 points maximum)
Calculate available energy in ATP	210 kcal
Calculate efficiency	$0.31 = 0.32$ or $31 = 32\%$
Describe fate of excess energy	Released as heat/increased entropy

(d) The synthesis of the Krebs cycle functions in the cytosol of bacteria, but among eukaryotes the process functions mostly in the mitochondria. **Phase** is a scientific question that connects the subcellular location of the process in the Krebs cycle to the evolution of eukaryotes.

Question (1 point)

- A valid scientific question related to evolution of eukaryotes (e.g., Since the Krebs cycle occurs in the "cytoplasm" of the mitochondria (matrix), does it suggest that mitochondria were once prokaryotes?)

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**United States. Congress. Senate.
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Literary and Rhetorical Terms AP ENGLISH LANGUAGE COMPOSITION PRACTICE TEST I Test I Answer Key Detailed Explanations of Answers AP ENGLISH LANGUAGE COMPOSITION PRACTICE TEST II Test II Answer Key Detailed Explanations of Answers AP ENGLISH LANGUAGE COMPOSITION PRACTICE TEST III Test III Answer Key Detailed Explanations of Answers APPENDICES Appendix A Punctuation Appendix B Spelling ANSWER SHEETS INSTALLING REA s TESTware USING YOUR INTERACTIVE TESTware Chapter 1 Scoring High on the AP English Language Composition Exam About the Book This test preparation guide provides all the tools you ll need to do well on the Advanced Placement Examination in English Language Composition In addition to test taking techniques and the information required by the test such as literary definitions and essay structure you will find complete lessons that teach you the skills demanded by this test The instructional passages of this book teach you critical reading skills by using material beyond the range of the AP exam You will be taught by lesson and example how to write high scoring essays that demonstrate all you have learned To complement the chapters on critical reading Chapter 4 focuses on the test itself and prepares you for it specifically Everything you need to know for the test is encapsulated in this chapter You will find helpful facts about the AP exam along with a breakdown of the questions into easily recognizable types As the time of the test approaches you will be able to concentrate on this chapter for the most time efficient preparation Our book also provides three full length practice tests Our exams include thorough explanations of the answers for added instruction and self diagnosis of problem areas We also include a glossary of literary terms with 65 entries all fully defined About the Test The Advanced Placement Examination in English Language Composition is geared toward the student who has studied the mechanics of writing and rhetoric at an advanced level and wishes to pursue college credit Take care not to confuse the AP Examination in English Language Composition with the AP Examination in Literature Composition The Literature exam focuses on literature and literary criticism while the Language exam deals with writing as a craft This book is designed to help you prepare for the AP Examination in English Language Composition only The AP English Language Composition Exam is divided into two sections Section 1 Multiple Choice 60 minutes accounts for 45% of total score Five or six reading passages with an average of 10 questions each Section 2 Free Response up to 120 minutes accounts for 55% of total score Three essay questions The first section consists of five or six reading passages and sixty multiple choice questions which you will have one hour to complete Each passage will be followed by an average of ten questions and thereafter the passage will not be referred to again Do not feel pressured to remember each reading just digest them one at a time and move on After reading the passage you will have approximately one minute to answer each question The second section of the AP English Language Composition Exam consists of three essay questions and is divided such that you will have forty minutes to write each essay Do not expect to be able to go back to an essay after the allotted time has elapsed Note that each essay has very specific instructions and most have a passage which you will read critically to answer the essay question Your essays will be scored according to the essay

structure the clarity of your writing and the extent to which you have answered the question

Scoring the Exam

The multiple choice section of the exam is scored by crediting each correct answer with one point and deducting one fourth of a point for each incorrect answer. Unanswered questions receive neither a credit nor a deduction. The free response essays are graded by more than 5 000 instructors and professors who gather together each June for a week of non stop AP essay grading. Each essay booklet is read and scored by four graders. Each grader provides a score for the individual essays. This score is a number on a scale from 0 to 9 0 being the lowest and 9 the highest. The graders are not aware of each other's scores. When the essays have been graded four times the scores are averaged one score for each of the three essays so that the free response section is composed of three scores. The three essays are weighted equally and the total weight of the free response section is fifty five percent of the total score. The multiple choice section accounts for forty five percent of the total score. Each year the overall grades may fluctuate because the grading scale depends upon the performance of students in past AP administrations. The following method of scoring along with the corresponding chart will give you an approximation of your score. It will not indicate the exact score you would get on the actual AP English Language Composition Exam.

The Social Studies Professional ,2002 *Monthly Catalog of United States Government Publications* ,2003 *Cracking the AP U.S. Government & Politics Exam, 2018 Edition* Princeton Review,2017-10-24

EVERYTHING YOU NEED TO HELP SCORE A PERFECT 5

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