

# AP<sup>®</sup> BIOLOGY 2015 SCORING GUIDELINES

## Question 2 (continued)

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

- Nearly all existing organisms perform glycolysis.
- Glycolysis is not as highly conserved as other pathways.
- Glycolysis occurs only in the cytosol.

Observation	Justification (1 point each box; 3 points maximum)
Nearly all existing organisms perform glycolysis.	<ul style="list-style-type: none"> <li>• That genes are conserved or highly conserved and/or that are highly conserved</li> <li>• Glycolysis pathway is ubiquitous and occurs in that same place in all eukaryotes</li> </ul>
Glycolysis occurs and is conserved in all cells.	Origin of glycolysis prior to other membrane-based eukaryotic pathways
Glycolysis occurs only in the cytosol.	Origin of glycolysis prior to other cell types with membrane-based eukaryotic pathways/membrane-based

(c) A researcher determines that in a certain organism, the maximum production of glucose produces 30 molecules of ATP for each molecule of glucose. The energy released from the total oxidation of glucose in that organism under standard conditions is 2870 kJ/mol. The energy released from the hydrolysis of ATP to ADP and inorganic phosphate under standard conditions is 31 kJ/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 the organism. **Describe** what happens to the excess energy that is released from the total loss of glucose.

	Calculations/Answer (1 point each box; 3 points maximum)
Calculate available energy in ATP	927 kJ/mol
Calculate efficiency	32.3% – 32.5% 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 organism functions mostly as the mitochondrion. **Phase** is a specific reaction that connects the cytosolic location of the pyruvate in the Krebs cycle to the oxidation of eukaryotes.

### Question (1 point)

- A lack of scientific questions related to synthesis of eukaryotes (e.g., Why do the Krebs cycle occur in the "mitochondria" of the mitochondria instead, does it suggest that mitochondria were once prokaryotes?)

# 2004 Ap Government Response Scoring Guidelines

**Ying Liu**



## 2004 Ap Government Response Scoring Guidelines:

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**United States Code** United States, 2001

**American Federal Tax Reports**, 2005

**Questions & Answers**, 2010 This

document is intended to address the most commonly asked questions regarding the sexual orientation of youth in school settings The goal of this resource is to assist educators curriculum and program planners school administrators policy makers and health professionals in the creation of supportive and healthy school environments for youth struggling with issues of sexual orientation Preface

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