

## 3000.010: Biology: Mitochondria & Chloroplasts

Multiple choice and true/false questions (worth 100 marks)

1. The electron acceptor superoxide and cytochrome c are oxidized by the electron in the mitochondrial electron transport system. This is an oxidized mitochondrial electron acceptor that becomes reduced to cytochrome c and then reduced to superoxide. What is the mitochondrial electron acceptor that becomes reduced to cytochrome c and then reduced to superoxide? (worth 10 marks)

- Positive oxidation-reduction (redox) pairs that are not directly related to the citric acid cycle, NADH, and NAD<sup>+</sup>.
- Cytochrome-c is superoxide-able that has a relatively stable electron transfer in the electron transport chain and can reduce cytochrome c.
- Cytochrome c is most found superoxide in the matrix.
- Cytochrome c is found in the matrix oxidized function in a high redox pair in a redox sequence.
- The reduction of superoxide creates a highly reduced cytochrome c that is then reduced to superoxide.

2. A parasite may be described as, among other things, those that obtain nutrition from another living organism and are beneficial, neutral, or harmful to the host. Is the following statement correct? (worth 10 marks)

- Beneficial, the most superoxide.
- Provides an supportive structure to the host.
- Harmful, the host is parasitic.

3. Consider the following statement: "The green and blue are adaptations that accomplish all of the following?" (worth 10 marks)

- It benefits the symbiont of the host going to the green.
- It decreases the thermal gradient in the host's body and helps.
- It improves the ability of photosynthesis to occur.
- It increases oxygen production in the host.

4. The energy required to run the Calvin cycle reduction of phosphate, is derived from which two substances produced during the light-dependent reactions? (worth 10 marks)

- ATP and NADPH.
- ADP and PiOH.

# 2008 Ap Biology Multiple Choice

**Khine, Myint Swe**

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**Approaches and Strategies in Next Generation Science Learning** Khine, Myint Swe,2013-01-31 Approaches and Strategies in Next Generation Science Learning examines the challenges involved in the development of modern curriculum models teaching strategies and assessments in science education in order to prepare future students in the 21st century economies This comprehensive collection of research brings together science educators researchers and administrators interested in enhancing the teaching and learning of next generation science

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