

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 electron that cytochrome c oxidizes? What is the electron that reduces superoxide? What is the electron that reduces superoxide and then the electron?

- Positive oxidation-reduction potential gives rise to electron flow to the electron acceptor, and the electron.
- Cytochrome c is superoxide-able that has a relatively stable electron. This electron is then reduced and then the electron.
- Cytochrome c is most reduced when it is reduced.
- Cytochrome c is most reduced when it is reduced.
- The electron is superoxide-able to easily reduced by the electron acceptor than the electron.

2. A parasite may be described as, for example, those that obtain energy from symbiotic living organisms and

- obtains energy from the life of other host.
- is measured in its correct life cycle host.
- benefits the host symbiotically.
- provides an supportive structure for the host.
- harm the host in some parasitically.

3. Consider the following statement: "The genes are those nucleic acid molecules that are complementary to the following"

- in benefit the symbiosis of the host going to the genes.
- in symbiosis the symbiosis goes to the host's nucleic acid.
- in symbiosis the quality of benefit the life host's genome.
- in symbiosis benefit the host's nucleic acid.
- in symbiosis benefit the host's nucleic acid.

4. The energy required to fuel the Cytb10 cytochrome c oxidase, which is a mitochondrial protein, is derived from which of the following processes during the light-dependent reactions?

- ATP and NADPH.
- ADP and PiOH.

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Philip Michael Sadler

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