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### QUESTION 1

Which of the following statements regarding energy production is true?

- A. There is a net total of 4 ATP produced in glycolysis.
- B. The GTP made in the TCA cycle does not become ATP.
- C. The cell requires energy to move NADH into the mitochondria.
- D. The net gain of ATP from each NADH is 2.

Correct Answer: C

Transport of the NADH into the mitochondria in most cases requires 1 ATP. This is the reason that prokaryotes often have a higher yield of ATP per glucose when compared to eukaryotes. Usually 38 ATP are produced per glucose for prokaryotes, and 36 per glucose for eukaryotes.

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### QUESTION 2

Where is the ETC located in bacteria?

- A. mitochondria
- B. Golgi apparatus
- C. peroxisome
- D. plasma membrane

Correct Answer: D

Eukaryotes house the ETC in their mitochondria, but bacteria, which are prokaryotic, do not possess mitochondria or organelles. The ETC in prokaryotic bacteria is located along the cell membrane.

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### QUESTION 3

Which of the following are reducing agents?

- A. FADH<sub>2</sub>
- B. NAD<sup>+</sup>
- C. NADH
- D. Both A and C

Correct Answer: D

Reducing agents are those that donate electrons in redox chemical reactions. Cellular respiration involves the carrying of electrons by both FADH<sub>2</sub> and NADH, because both must be included in the answer.

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#### QUESTION 4

Which of the following would NOT occur during sympathetic stimulation?

- A. secretion of glucagon
- B. dilation of bronchioles
- C. dilation of intestinal blood vessels
- D. dilation of pupils

Correct Answer: C

The blood flow to visceral organs decreases during sympathetic stimulation, but increases under parasympathetic stimulation. One function of the sympathetic nervous system is to increase blood flow to organs in demand of air or nutrients. During the fight-or-flight response, vasodilation works to move blood away from the digestive system and towards the muscles.

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#### QUESTION 5

##### PLASTICS

Plastics have long been considered one of the great conveniences of the modern era, but evidence is mounting to indicate that these conveniences have come at an incredible cost. The chief benefit of plastics is their durability, but this benefit turns out to be the same reason plastic has become a significant problem: It takes 200 to 400 years to decompose. All of this plastic has accumulated into a catastrophic mess and has also caused disease in humans.

Between Hawaii and Japan, a giant mass of plastic twice the size of Texas slowly swirls with the currents of the Pacific Ocean. This area has come to be known as the Great Pacific Garbage Patch, and its effects on the ecology of the ocean are unimaginable. According to United Nations researchers, a hundred thousand sea mammals and a million seabirds die each year. They are found with cigarette lighters, syringes, and other plastics that they mistake for food in their stomachs.

Evidence also indicates that the plastic receptacles that people store their food in poses health risks. For instance, phthalates have been shown to have detrimental effects on the reproductive system, yet they are found in many plastic products including baby bottles and water bottles. They have also been linked to various forms of cancer. Additionally, a chemical called bisphenol A that is found in many plastics can mimic the effects of the hormone estrogen, which can also affect the reproductive system.

What particular risk does the author say the Great Pacific Garbage Patch poses to marine animals?

- A. The animals\' habitat is poisoned by phthalates.
- B. It affects yearly temperature averages.
- C. Animals accidentally ingest the plastics and die.
- D. Seabirds cannot get to the fish below the garbage.

Correct Answer: C



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