

1. **Answer:** D

Explanation: At the highest ecological hierarchy is the biosphere which extends from the atmosphere down to the depths of the oceans that are inhabited by life.

2. **Answer:** C

Explanation: Biotic factors are the living components of the environment and include all organisms living in the area. On the other hand, abiotic factors are the nonliving components, which refer to physical and chemical factors such as temperature, water, and nutrients.

3. **Answer:** C

Explanation: The distribution of photosynthetic organisms and autotrophs, in general, is highly influenced by the availability of inorganic nutrients.

4. **Answer:** B

Explanation: The confusion might arise because II and III were mentioned in the same sentence but oxygen is also required in dissolved form by aquatic organisms.

5. **Answer:** B

Explanation: If we define a habitat because it includes both biotic and abiotic components of the environment, it's very close to an ecosystem and so an array of ecosystems is referred to as a landscape.