

第一題：(50%)

“Biodiversity” is a well-known term that describes the diversities of species, genes, and ecosystems in the biosphere. There is another relevant term recently recognized worldwide to face the challenge of the natural conservation and the human development in the 21st century, i.e., “ecological complexity”.

Ecological complexity depends upon species diversity and the structure of species interactions. Complex ecosystems are hierarchically controlled, characterized by non-linear feedback loops, and exhibit patterns that can be observed over many different spatial and temporal scales.

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The ecosystem approach is a strategy for the integrated management of land, water and living resources that promotes conservation and sustainable use in an equitable way. Application of the ecosystem approach will help to reach a balance of the three objectives of the Convention. An ecosystem approach is based on the application of appropriate scientific methodologies focused on levels of biological organization, which encompasses the essential structures, processes, functions and interactions among organisms and their environment. It recognizes that humans, with their cultural diversity, are an integral component of many ecosystems.