

Application 02: The reliability (Consistence) of the utilization of the terminology in natural science and life by students.

توثيق استعمال المصطلحات لدى الطالب المكتسبة في مجال علم الأحياء والحياة.

Exercice 01

Fill in the gaps in the texts mentioned above using the studied terminology

Text 01

Animal cells are, or cells with a membrane-bound nucleus. Unlike....., DNA in animal cells is not housed within the nucleus.

In addition to having a, animal cells also contain other membrane-bound organelles, or tiny cellular structures, that carry out specific functions necessary for cellular survive.

Organelles have a wide range of responsibilities that include everything from producingand to providing energy for animal cells.

Nucleus contains most of the cell's, organized as multiple long linear molecules in complex with a large variety of, such as, to form The within these chromosomes are the cell's nuclear called

The function of the nucleus is to maintain the integrity of these genes and to control the activities of the cell by regulating The nucleus is, therefore, the control center of the cell.

Text 02

Classification is a way of living things. According to the presence/ absence of the,

Scientists have divided the Animal Kingdom into two main groups:

1/ are animals without a backbone

2/are animals with a backbone

Based on the offorming the body,

The Animal Kingdom is generally divided into two Sub-Kingdoms:

1/..... (First animals): unicellular, microscopic animals, no tissues.

2/.....: Multi cellular animals. Cells arranged in tissues

Exercise 02 : Find appropriate term of each definition

1. Define organelle responsible on cellular respiration process (.....)
2. What is the sum of genes inside the nucleus (.....)
3. The flowering plant with enclosed seeds are called (.....)
4. Define a group of individuals from different species occupying the same ecosystem (.....)
5. Cite the two types of cell division (.....),(.....)
6. The condensed form of the genetic material is called (.....)
7. The proces of generating identical copy of genetic material is called (.....)
8. The classification of living things is designed by (.....)

Exercise 03: Define if the proposed texts are following the right method of using scientific terms answer by correct or false (if the answer is false, justify).

Text A

The genetic material for all living things is composed of DNA (deoxyribonucleic acid). The structure of Gene must enable this substance to store coded information that control the biological function of cells.

The genetic material transmits this hereditary information in a stable form for the cell and organism through accurate replication of DNA. The replication process ensures high accuracy in copying the genetic information so that all progeny cells receive the same information. Therefore, The DNA is packaged into chromatins inside the cell.

Text B

Food chain is a linear sequence of organisms which starts from producer organisms and ends with decomposer species. Food web is a connection of multiple food chains. Food chain follows a single path whereas food web follows multiple paths.

From the food chain, we get to know how organisms are connected with each other. Food chain and food web form an integral part of this ecosystem.

Text C

Mitochondria are often called the “powerhouses” or “energy factories” of a cell because they are responsible for making adenosine triphosphate (ATP), the cell’s main energy-carrying molecule. ATP represents the short-term stored energy of the cell.

Cellular respiration is the process of making energy using the chemical power found in nutrition. In energy factories organelle, this process uses oxygen and produces carbon dioxide as a waste product. In fact, the carbon dioxide that you exhale with every breath comes from the cellular reactions that produce carbon dioxide as a by-product.