Biology 7th grade

“Inheritance and Variation” Unit assessment Student \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Task # 1 Complete the sentences with the words from the box.

|  |
| --- |
| Protein, DNA , nucleus, gene, code |

In the 1)\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_of every cell there are a number of long threads called chromosomes. Each chromosome contains one very long molecule of 2)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. The DNA carries a 3)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that instructs the cell about which kind of 4)\_\_\_\_\_\_\_\_\_\_\_\_ it should make. A part of a DNA molecule coding for the protein is called a 5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Task # 2Match the terms with their definitions

|  |  |
| --- | --- |
| 1. diploid nucleus | a) a male gamete |
| 2.cell cycle | b) the transmission of genetic information from generation to generation |
| 3. allele | c) contains two sets of chromosome |
| 4.sperm | d) any of two alternative forms of a gene |
| 5.meiosis | e) the series of events that take place in a cell leading to its division and duplication of its DNA to produce two daughter cells. |
| 6.inheritance | f) nuclear division giving rise to cells that are genetically different |

Task 3 Answer the question

1. What do the letters DNA stand for?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2.DNA is a polymer, which means that is made up of many repeating single units (monomers).

What are the monomers called?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. -Circle a nucleotide.

- Label the sugar and phosphate.

-Label the bases that are not already labeled

