Biology Assignment 2

1. Proteins are made up of:

nucleotides

enzymes

base pairs

amino acids

2. There are twenty different types of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

nucleotides

base pairs

codon

amino acids

3. The message of the DNA code is information building \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

proteins

carbohydrates

nucleotides

lipids

4. Each set of three nitrogenous bases that codes for amino acid is known as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

nucleotide

base pair

tRNA

codon

5. The amino acid \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is represented by the mRNA codon ACA. Hint: use the amino acid table

Threonine

proline

glycine

lysine

6. There can be one or more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for the same amino acid

tRNA

nucleotide

codon

anticodon

7. For any one codon, there can be only one \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

nucleotide

phosphate group

base pair

amino acid

8. The genetic code is said to be universal because a codon represents the same amino acid in almost all organisms

True

False

9. Proteins are made in the cytoplasm of a cell, whereas DNA is found only in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Nucleus

cytoplasm

ribosome

golgi apparatus

10. The process of making RNA from DNA is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Replication

transcription

translation

duplication

11. The process of transcription is similiar to the process of DNA \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Replication

Duplication

transcription

translation

12. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ carries information from the DNA in the nucleus out into the cytoplasm of the cell.

DNA

mRNA

tRNA

rRNA

13. mRNA carries the information for the making the proteins to the \_\_\_\_\_\_\_\_\_

nucleus

ribosome

cytoskeleton

golgi apparatus

14.The two mRNA codons for Phenylalanine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Hint: use the amino acid table

TTT, TTC

AAA,AAG

UUU, UUC

CCC, CCG

15.The stop mRNA codons are: \_\_\_\_\_\_\_\_\_\_\_\_

AUG

UAA, UAG, UGA

AUU, AUC, ACU

AUG, ACC, AUC

16. The code used to determine the amino acid from the amino acid table:

mRNA

DNA

tRNA

rRNA