

### **Task 1: Choose the best answer**

**1. Choose the statement(s) that describe DNA replication?**

- A. Is the process by which DNA makes a copy of itself during cell division.
- B. The separation of the DNA into two single strands.
- C. follow 4 steps according to 4 enzymes' function.
- D. All of the above.

**2. What process results in each chromatid of a chromosome having identical genetic information?**

- A. DNA replication
- B. Protein synthesis

**3. When does DNA replication occur?**

- A. When the double helix structure of DNA unzip.
- B. When the DNA break a half.
- C. When one strand of the DNA is untwisted.
- D. When the nitrogen bases pair up with sugar phosphate strand.

**4. Which of the following is the correct pairing of nitrogen bases?**

- A. Adenine-Thymine & Guanine - Cytosine
- B. Cytosine - Thymine & Guanine - Adenine
- C. Guanine - Adenine & Guanine - Thymine
- D. Thymine - Guanine & Adenine-Cytosine

**5. What's inside a cell that around the nucleus?**

- A. Plasma membrane
- B. Ribosomes
- C. Cytoplasm
- D. Vacuoles

**6. It's a small structure that produces protein. What is it?**

- A. Endoplasmic Reticulum
- B. Ribosome
- C. Cytoplasm
- D. Nucleus

**7. A sequence of three bases that codes for one amino acid is called a \_\_\_\_.**

- A. mRNA
- B. tRNA
- C. Codon
- D. Anti-codon

**8. The complement to a codon is called \_\_\_\_.**

- A. mRNA
- B. Amino acid
- C. Codon
- D. Anti-codon

**9. What is the nitrogen base complement to Adenine in RNA?**

- A. Adenine
- B. Guanine
- C. Cytosine
- D. Uracil

10. A substance found within all living things that forms the structure of muscles and organs is called \_\_\_\_\_.

- A. Protein
- B. Carbohydrates
- C. Minerals
- D. Vitamins

