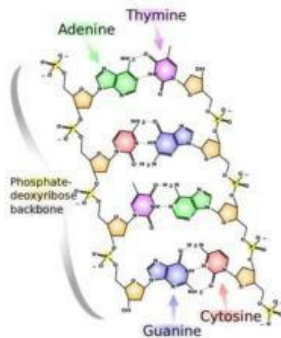


QUIZIZZ Worksheets**DNA Structure & Replication- AP Biology**

Total questions: 10

Worksheet time: 9mins

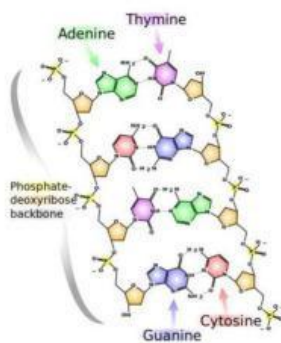
Instructor name: Shima Saad

Name Class Date 

1.

The two strands of a DNA molecule are held together by

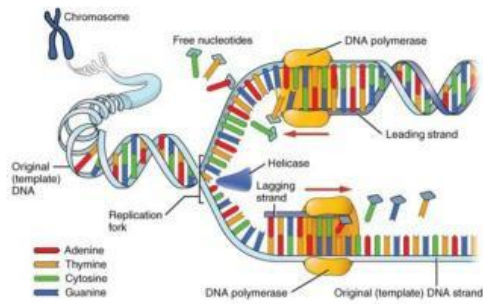
- a) ester linkages
- b) hydrogen bonds
- c) phosphodiester bonds
- d) glycosidic linkages
- e) glycolsyl bonds



2.

DNA is a polymer made of monomers called

- a) pyrimidines
- b) nucleotides
- c) ribosomes
- d) deoxyribose
- e) purines



3.

What is the complement to the DNA strand below?

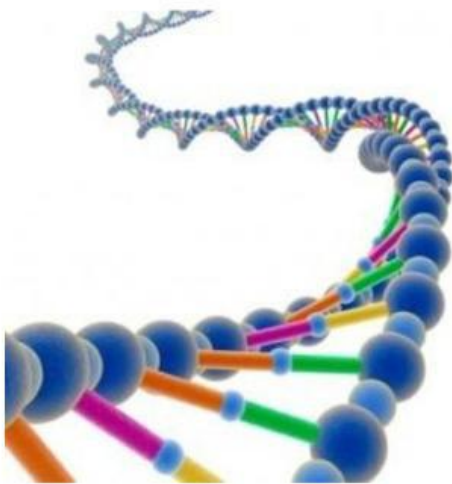
5'-ATGCCAT-3'

a) 3'-ATGGCAT-5'

b) 5'-TACGGTA-3'

c) 5'-ATGGCAT-3'

d) 3'-TACGGTA-5'



4.

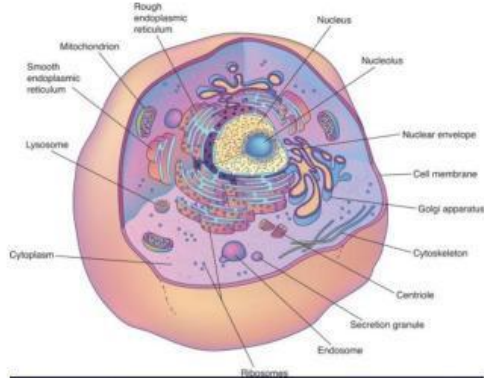
Which of the following best describes a DNA molecule?

a) contains Uracil

b) made of amino acids

c) double helix

d) contains ribose



5.



In animal cells, where is DNA found?

- a) nucleus
- b) both the mitochondria and nucleus
- c) mitochondria
- d) chloroplast
- e) ribosome



6.

According to Chargaff's base pairing rule, if a molecule of DNA has 27% adenine then what other base will also likely be 27%?

- a) uracil
- b) thymine
- c) guanine
- d) cytosine

7. Which of the following are not components of a deoxyribonucleotide (a nucleotide of DNA)?

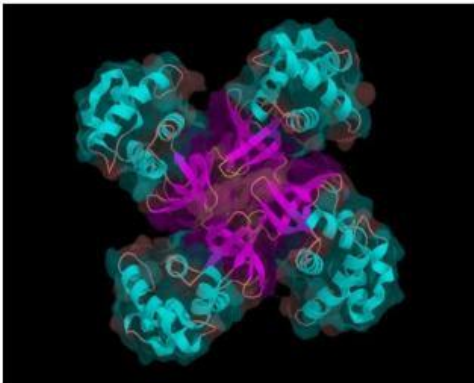
- a) ribose
- b) adenine
- c) deoxyribose
- d) phosphate group



8.

Which components of the nucleotide form the sides (backbone) of DNA?

- a) deoxyribose and thymine
- b) ribose and a nitrogenous base
- c) ribose and a phosphate
- d) deoxyribose and adenine
- e) deoxyribose and phosphate



9.

Which of the following is a primary function of DNA?

- a) To transmit genetic information from parent to offspring
- b) To provide structural support to the cell
- c) To produce energy for cellular activities
- d) To catalyze biochemical reactions

10. Which of the following covalent bonds holds adjacent nucleotides together within the backbone?

- a) hydrogen bonds
- b) ester linkages
- c) glycosidic linkages
- d) phosphodiester bonds
- e) peptide bonds

