

# DNA & Protein Synthesis Exam

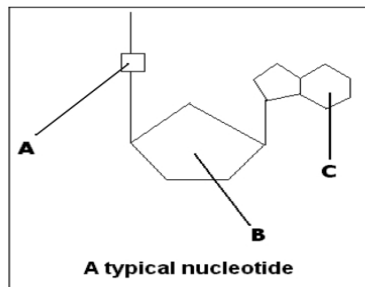
DO NOT WRITE ON EXAM

EXAM # \_\_\_\_\_

VER. B

## Multiple choice

Directions: Answer the following questions based on the following diagram. (1pt. each)



- In the above item A refers to the \_\_\_\_\_.
  - Sugar molecule
  - Phosphate group
  - Nitrogenous base
  - Hydrogen bond
- In the above item B refers to the \_\_\_\_\_.
  - Sugar molecule
  - Phosphate group
  - Nitrogenous base
  - Hydrogen bond
- In the above item C refers to the \_\_\_\_\_.
  - Sugar molecule
  - Phosphate group
  - Nitrogenous base
  - Hydrogen bond
- The sugar molecule represented consists of \_\_\_\_\_ Carbons.
  - 3
  - 4
  - 5
  - 6
- The above nucleotide is \_\_\_\_\_.
  - A purine
  - An enzyme
  - A pyrimidine
  - None of the above
- The DNA molecule is in the shape of a(n) \_\_\_\_\_.
  - Single strand
  - Alpha helix
  - Beta-pleated sheet
  - Double helix
- The mRNA Molecule is in the shape of a(n) \_\_\_\_\_.
  - Single strand
  - Alpha helix
  - Beta-pleated sheet
  - Double helix
- The Backbone of the DNA molecule is made of which components of the nucleotide from the above diagram? \_\_\_\_\_.
  - A & B
  - B & C
  - A & C
  - B only
- The component which binds complementarily according to base-pairing rules is item. \_\_\_\_\_.
  - A
  - B
  - C
  - None of the above
- According to base-pairing rules with DNA "A" bonds only to \_\_\_\_\_.
  - A
  - C
  - T
  - U
  - G