

# DNA and RNA Tutorial Answers

## Short Questions

1. (a) What is meant by the central dogma of molecular genetics?

- DNA is transcribed to RNA which is translated to protein

(b) Define Chargaff's rules

- $A=G$  ,  $C=T$
- $A+G = C+T$
- Purines = Pyrimidines

(b) List the features of the Watson and Crick model of DNA structure.

- Nucleotide: deoxyribose sugar with base attached at 1' C and Phosphate at 5' C
- Polymer of nucleotides joined by phosphodiester bonds
- Double helix
- H bonding between bases
- A pair with T 2 H bonds, G pairs with C 3 base pairs [1] / complementary base pairing
- Diameter 2nm, helical turn of 3.4nm, distance between bases 0.34nm (or 1.0 base pairs /turn)
- Anti-parallel strands

2. Explain the role of each of the following in DNA replication

(a) DNA polymerase I

- Removes RNA nucleotides in primer and replaces them with DNA nucleotides

(b) DNA ligase

- Joins Okazaki fragments together by forming phosphodiester bonds

(c) Helicase

- Unwinds and unzips DNA

(e) Primase

- Synthesises RNA primer to provide a 3' end for DNA

(e) DNA polymerase III

- Main enzyme of replication, constructs new strand by complementary base pairing to each strand  $A=T$  and  $G=C$

(f) Gyrase

- Prevents supercoiling of DNA, upstream of replication fork

# Dna And Rna Questions Answers

**Kathleen Armour**



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