

Questions (think of questions that might be on the exam)

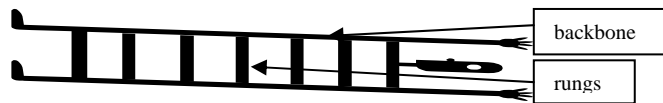
1. The Structure of DNA

- A. DNA consists of _____ that are arranged into a twisted ladder structure called a _____.
- B. A molecule of DNA is made up of _____ of tiny subunits called _____.
- C. Each nucleotide consists of:
 - _____
 - _____
 - _____

Q. What is a molecule of DNA made up of?



- D. The _____ and _____ form the sides (_____) of the DNA molecule.



- E. The _____ form the “ _____ ”
- F. There are _____ types of nitrogen bases
 - C = _____
 - T = _____
 - A = _____
 - G = _____

Q. How are the bases arranged in DNA structure?

- G. Each base will only _____ with _____ other specific base.
 - _____ and _____
 - _____ and _____

- H. DNA Structure
 - To Crack the _____ found in DNA we need to look at the _____ of bases.
 - The bases are arranged in _____ called _____.

- Combinations of bases is the _____ that produces the _____ for a particular trait
 - ✓ ATCGTCAGG may be for _____
 - ✓ ATCGTCAGC may be for _____
- Because there can be so many different _____ of the bases the code can be _____.

2. Replication Process

- Replication** = the process by which a cell makes a _____ of the _____ in its nucleus.
- The two sides of the DNA molecule _____ and _____.
 - “ _____ ” between base pairs
- Nitrogen bases floating in the nucleus _____ with the bases on each half of the _____ (A- ____ & ____ -G)
- Two _____ strands of _____ are formed.

Q. During DNA replication, which base pairs with guanine?

Summary (about 5 sentences)