

Cell Cycle, Chromosomes, Mitosis & Meiosis – Test Study Guide Key

DNA

1. a. What is DNA?

- DNA stores and encodes all of the information in an organism, such as which proteins to make, and how to make them.
- DNA encodes all of the functions of the cell, including its ability to reproduce
-

1. b. When an addition, deletion, or substitution happens in DNA strand, then a **MUTATION** occurs

2. What is the composition of DNA?

- DNA is a double helix made up of two strands twisted together
- The strands each have a sugar and phosphate backbone with nucleotide bases attached in series along each strand
- DNA is made up of four different nucleotide bases. They are adenosine (A), thymine (T), cytosine (C), and guanine (G)

3. How is DNA replicated?

Step 1: Helicase enzyme helps the DNA unwind

Step 2: Chain splits breaking Hydrogen bonds

Step 3: DNA Polymerase binds to separated chains

Step 4: New strands are synthesized according to existing DNA – fill in complementary bases

Step 5: DNA strand recoils

End with two double strands of DNA in the double helix shape.

RNA AND TRANSCRIPTION

4. What is RNA?

- RNA is a polymer made up of nucleotides
- RNA is single-stranded
- RNA contains the same nucleotides as DNA, with the substitution of uracil (U) for thymine (T)
- 3 types: mRNA is messenger from DNA to protein, tRNA used in translation, and rRNA is structural element in ribosome

5. What is mRNA?

- mRNA acts as a messenger, conveying genetic instructions for how to assemble proteins from the cell's DNA to its protein-making ribosome
- mRNA is assembled using one strand of the cell's DNA as a template
- mRNA contains a copy of one or a few genes (parts), not the entire chromosome.

6. Explain transcription and where it occurs

- RNA is copied from DNA template
- Occurs in nucleus of cell
- Step 1: DNA uncoils for a particular gene(s)
- Step 2: RNA polymerase attaches to DNA and fills in bases
- Step 3: RNA strand starts to form by matching complementary bases (U instead of T)
- Step 4: RNA formed and DNA recoils

PROTEIN SYNTHESIS

7. What is a ribosome?

- A ribosome is an organelle in the cell that assembles the proteins that cell needs to determine its job

Dna Test Study Guide Answer

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