

## Unit 6: Molecular Genetics Study Guide

1. How is genetic information in one eukaryotic cell copied and distributed to two identical daughter cells?

During the process of mitosis, genetic information in one eukaryotic cell is copied and distributed to two identical daughter cells.

2. How is a gene transcribed and translated to produce a protein?

A gene is transcribed and translated to produce a protein through the process of transcription and translation. In transcription, a cell makes an RNA copy of a piece of DNA where the mRNA carries the genetic information needed to make proteins in a cell. Then, in translation, the sequence of mRNA is translated to a sequence of amino acids.

3. Describe how genetic information enters a bacteria by:

- a. Transformation:

Genetic information enters a bacteria by the bacterium taking a piece of DNA that is floating in the environment.

- b. Transduction:

Genetic information enters a bacteria by accidentally moving from one bacterium to another due to a virus.

- c. Conjugation:

Genetic information enters a bacteria by transferring between bacteria through a tube that is between cells.

4. What is the base-pairing rule?

The base-pairing rule goes as follows; adenine (A) + thymine (T) and cytosine (C) + guanine (G)

5. What is the start codon?

The start codon is AUG due to the fact that it is the first codon in the mRNA that undergoes translation.

6. What are the steps of DNA replication?

1. DNA replication begins at sites called origins of replication
2. Helicase will unwind the DNA strands at each replication fork
3. The enzyme primase initiates replication by adding short segments of RNA, called primers, to the parental DNA strand
4. Antiparallel elongation
5. The leading strand is synthesized in one continuous segment, but since the lagging strand moves away from the replication fork it is synthesized in chunks
6. After DNAP III forms an okazaki fragment, DNAP I replaces RNA nucleotides with DNA nucleotides

7. What are the steps of transcription?

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