

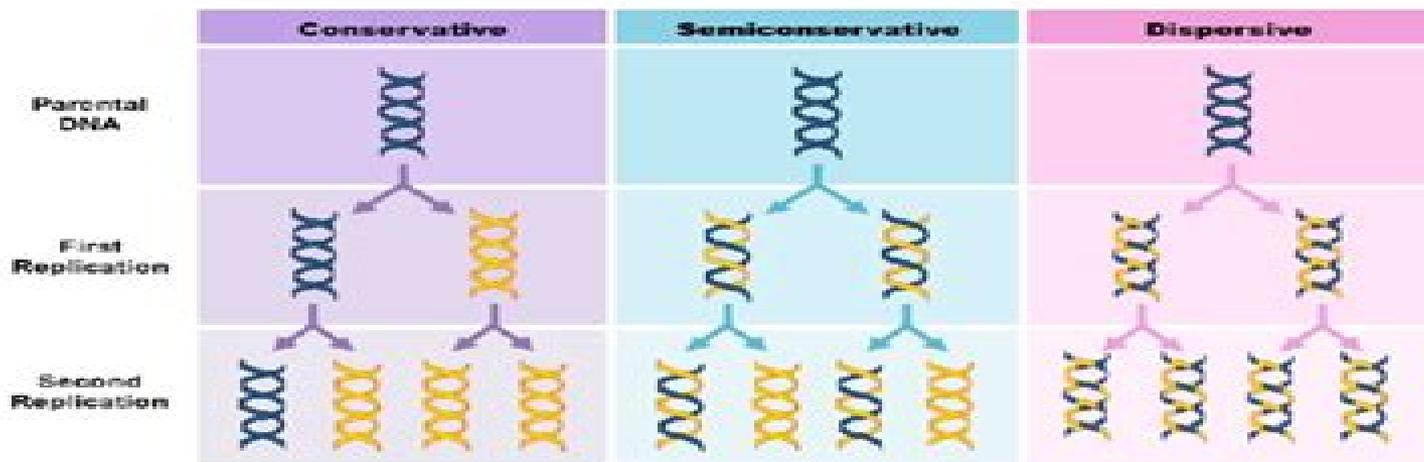
## CHAPTER 16:

### 1. Describe the structure of DNA.

- Double helix of 2 anti parallel strands
- Sugar phosphate backbone on the outside (hydrophilic)
- Nitrogenous bases on the interior (hydrophobic). Purines pair with Pyrimidines.

### 2. Describe the three models of DNA replication.

- Semi Conservative: Each strand acts as a template for a new strand
- Fully Conservative: An entirely new molecule is synthesised from a DNA template (which remains unaltered)
- Dispersive: New molecules are made of segments of new and old DNA



### 3. Describe the process of DNA replication, including the role of the origins of replication and replication forks.

- Replication begins at specific sites, origins, where two parental strands separate to form replication bubbles
- Bubbles expand laterally as DNA replication proceeds in both direction; end of bubbles are called replication forks (Y-shaped region)
- Replication bubbles fuse, and synthesis of daughter strands is completed

# Chapter 16 The Molecular Basis Of Inheritance

**Danida Dawn Saffron**



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