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Human Anatomy

BCH204

Answers

**Steps of DNA replication;**

* Replication fork formation
* Primer binding
* Elongation
* Termination

Functions of DNA replication enzymes;

* **DNA helicase**- Unwinds and separates double stranded DNA as it moves along the DNA. It forms the replication fork by breaking hydrogen bonds between nucleotide pairs in DNA.
* **DNA primase**- A type of RNA polymerase that generates RNA primers. Primers are short RNA molecules that act as templates for the starting point of DNA replication.
* **DNA polymerases**- Synthesize new DNA molecules by adding nucleotides to leading and lagging DNA strands.
* **DNA ligase**- joins DNA fragments together by forming phosphodiester bonds between nucleotides.
* **Exonucleases**- A group of enzymes that remove nucleotide based from the end of a DNA chain.