Name: David Daniella Christabel

Matric Number: 18/MHS03/002

Department: Anatomy

College: Medicine And Health Sciences

Course Code: BCH 204

Question:

- **Highlight the steps of DNA replication**

i. Replication fork formation
ii. Primer binding
iii. Enlongation
iv. Termination

- **Outline the functions of DNA replication enzymes.**

i. DNA helicase: separates double stranded DNA as it moves along the DNA.
ii. DNA primase: they act as templates for the starting point of DNA replication
iii. DNA polymerases: they synthesise new DNA molecules by adding nucleotides to leading and lagging DNA strands.
iv. Topoisomerase or DNA Gyrase: they unwind and rewind DNA strands to prevent the DNA from becoming tangled or supercoiled.
v. Exonucleases: group of enzymes that remove nucleotide bases from the end of a DNA chain.
vi. DNA ligase: joins DNA fragments together by forming phosphodiester bonds between nucleotides.