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**Question**

**1. Highlight the steps of DNA replication**

**2. Outline the functions of DNA replication**

1 .highlight the steps of DNA replication

* Replication basics

This depends on the pairing of bases between the two strands of DNA .The A base can only bind to a T, and a C can only bind to a G.

* Initiation

Replication begins at a location on the double helix known as oric to which certain initiator protein bind and trigger unwinding

* elongation With the primer as the starting point for the leading strand a new DNA strand grows one base at a time
* Termination

After elongation is complete, two new double helices have replaced the original helix. During termination, the last primer sequences must be removed from the end of the lagging strand

2. Outlight the functions of DNA replication

1. To form protein and RNA

2. To exchange the genetic material of parental chromosome during meiotic cell division

3. To facilitate occurring mutation and even mutational change in a single nucleotide pair, called point mutation

4. It is also long term storage of information

5. Encoding information

6. Mutation and recombination

7. Gene expression