

# The roles of DNA and RNA in Protein Synthesis

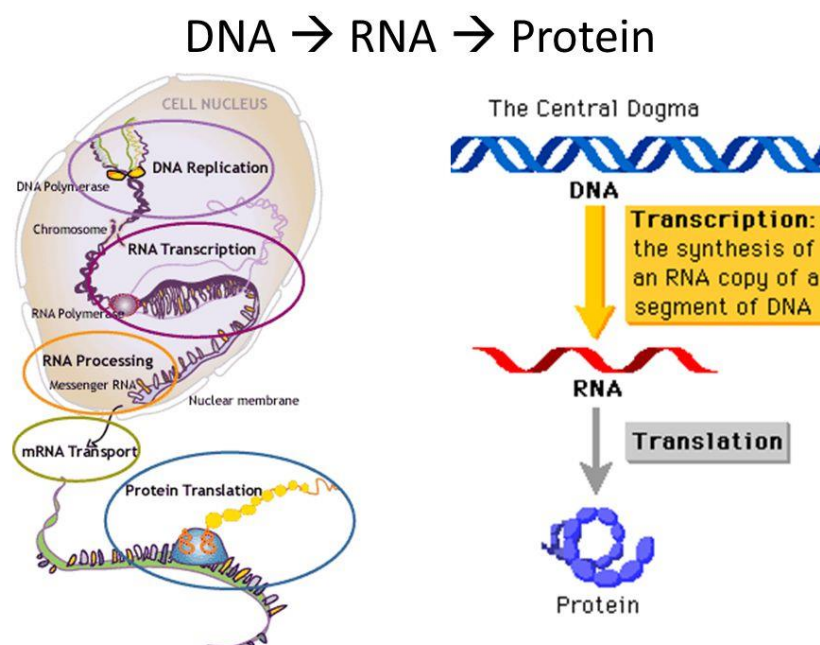
## Introduction:

There are two nucleic acids, deoxyribonucleic acid (DNA) and ribonucleic acid (RNA). These are polymers built up from monomers called nucleotides and are therefore referred to as polynucleotides. DNA is a stable molecule which is a long-term store of information.

On the other hand RNA is used for retrieving information from DNA and using it to synthesize polypeptides and proteins. The three types of RNA are:

1. Messenger RNA (mRNA)
2. Ribosomal RNA (rRNA)
3. Transfer RNA (tRNA)

In preparing for your examinations you will be required to know the structure of DNA, state the differences between both nucleic acids and describe their roles in Protein Synthesis.



<https://www.slideshare.net/jayak1/02-the-role-of-dna-in-protein-synthesis?ref=https://notesmaster.com/en/group/caribbean/1556-cape-covid19-support/28229-the-roles-of-dna-and-rna-in-protein-synthesis>

**Take a look at the video below to learn more:**

[https://www.youtube.com/watch?v=Dghot1ipzG8&feature=emb\\_logo](https://www.youtube.com/watch?v=Dghot1ipzG8&feature=emb_logo)

**Test your Mastery:**

1. With the aid of a simple well-labelled diagram describe the structure of DNA.
2. State THREE differences between DNA and RNA.
3. Compare the roles of DNA and RNA in Protein Synthesis.