

1. What is gene expression?

It's a process where the information encoded in a gene is used to directly assemble a protein molecule.

2. Describe each of these processes that are essential to the formation of a protein:

transcription: the synthesis of RNA using DNA template

translation: the synthesis of a polypeptide using genetic information.

3. Write the *central dogma* of molecular genetics, as proclaimed by Francis Crick in the boxes below. This is the essential direction of flow of genetic information. Memorize and understand the central dogma.



The central dogma is a theory stating that genetic information flows only in one direction, from the DNA to RNA, to protein or RNA directly to protein.

4. How many nucleotide bases are there? \_\_\_\_\_ How many amino acids? \_\_\_\_\_

There are 4 nucleotide bases (A, G, C, T) for DNA and A, G, C, U for RNA. There are 20 amino acids.

5. How many nucleotides are required to have a unique code for each of these 20 amino acids?  
at least 60 nucleotides

6. The language of DNA is a *triplet code*. How many unique triplets exist? \_\_\_\_\_

64 unique triplet pairs

7. Of the 64 possible codons, how many code for amino acids? \_\_\_\_\_

61 out of 64

8. What event is coded for by the codons UAA, UAG, and UGA? \_\_\_\_\_

A STOP codon

9. What is the start codon?

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**Arshad Iqbal**

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