

linear order of amino acid
in polypeptide chain.

On the whole it may
be said that the relationship
of nucleotide bases, and amino
acids, is known as genetic code.

'Niren Berg', 'Ochoa'
and Har Gobind Khorana along
with Crick identified various
codes for different amino
acids.

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the first amino acid methio-
nine which is later on
removed enzymatically.

8) Nonsense codons -
They are also known as
termination codons UAA, UGA
and UAG. The three codons
are known as termination
or nonsense codons because
they don't code for any
amino acid and give a
single of stop process.

9) Genetic code works on the basis
of colleat collinearity means
its explains the specific
relationship between DNA, RNA
and polypeptide chain.

The linear order
of nucleotides in the DNA
determines the linear order
of codons in mRNA.
Inturn the linear order
of codon in messenger
determines the

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3) The codons are non-overlapping means the bases of mRNA read in the blocks of three letters without any overlapping of bases.

4) They are unambiguous and specific means only one codon codes for one amino acid.

5) Amino acids are coded by more than one codon means the code is of degenerate type.

6) Genetic code is of universal nature means the same codons code for the same amino acid in every form of life means may be bacteria or may be in human.

7) Initiation codon - It is also known as starting codon. In the whole structure AUG when present at the first position of mRNA acts as start codon. It means the polypeptide begin with

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Ques:- Short notes on genetic code.

	U	C	A	G	
U	UUU UUC UUA UUG	UCU UCC UCA UCG	UAU UAC UAA UAG	UGU UGC UGA UGG	U
C	CUU CUC CUA CUG	CCU CCC CCA CCG	CAU CAC CAA CAG	CGU CGC CGA CGG	C
A	AUU AUC AUA AUG	ACU ACC ACA ACG	AUU AUC AUA AUG	AUU AUC AUA AUG	A
G	GUU GUC GUA GUG	GCU GCC GCA GCG	GAU GAC GAA GAG	GUU GUC GUA GUG	G

Characteristic features of genetic code:-

1) Code is comma less:- In the genetic code, between the two nitrogenous bases there is no punctuation.

2) Genetic codes are in triplet form but among the 64, 61 codons code for amino acid but three do not code for any amino acid. Hence they are known as stop codons.

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