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Prelims PYQ, Mains model answers, and copy evaluation. Write to the desk for this paper, a doubt, or the AI waitlist.

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Q1(e)

Gene expression.

UPSC Civil Services Mains 2023 · Anthropology GS 1 · 10 marks · The biological basis of Life

1.7 The biological basis of Life: The Cell, DNA structure and replication, Protein Synthesis, Gene, Mutation, Chromosomes, and Cell Division.

Facts & figures for this PYQ only.

Numbers move. Confirm the latest Budget, Economic Survey or census round. This sheet is for revision, not a substitute for the model answer.

<https://wrapexams.com/upsc/mains-answers/anthropology-gs-1/2023/gene-expression/>

Central dogma

Crick's statement that sequence information flows from DNA to RNA to protein as the ordinary cellular path.

Lactase persistence

Adult milk digestion tied to regulatory alleles near LCT, coevolving with dairying in some populations.

EPAS1

A hypoxia-related locus whose regulation is implicated in Tibetan high-altitude adaptation.

Epigenetics

Heritable or stable expression states, including methylation, that do not change the DNA base sequence.

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