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Q1(d)**Genetic polymorphism and natural selection.**

UPSC Civil Services Mains 2026 · Anthropology GS 1 · 10 marks · Concept of genetic polymorphism and selection, Mendelian population, Hardy-Weinberg law

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9.3 Concept of genetic polymorphism and selection, Mendelian population, Hardy-Weinberg law; causes and changes which bring down frequency-mutation, isolation, migration, selection, inbreeding and genetic drift. Consanguineous and non-consanguineous mating, genetic load, genetic effect of consanguineous and cousin marriages.

Facts & figures for this PYQ only.

Numbers move. Confirm the latest Budget, Economic Survey or census round.

Sickle Cell Trait (HbAS)

Maintains balanced polymorphism in malaria-endemic regions through selective advantage against severe malaria.

Balanced Polymorphism

A dynamic equilibrium where multiple alleles are maintained in a population by natural selection.

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