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Q5(e)

Single-gene mutation disorders in man.

UPSC Civil Services Mains 2024 · Anthropology GS 1 · 10 marks · Mendelian genetics in man-family study, single factor, multifactor, lethal, sub-lethal and polygenic inheritance in man.

9.2 Mendelian genetics in man-family study, single factor, multifactor, lethal, sub-lethal and polygenic inheritance in man.

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.

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Sickle-cell variant

A missense change in beta-globin produces HbS; homozygous disease and heterozygote malaria protection illustrate balanced polymorphism.

A. C. Allison

Established the classic link between sickle-cell trait frequencies and protection against severe falciparum malaria.

Huntington disease

An autosomal-dominant CAG-repeat expansion disorder with anticipation and commonly adult onset.

Haemophilia A

An X-linked recessive factor VIII disorder; an affected father does not transmit it to sons.

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