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Q1(d)

Pedigree analysis in genetic counselling

UPSC Civil Services Mains 2022 · Anthropology GS 1 · 10 marks · Genetic imprints in human disease, genetic screening, genetic counseling, human DNA profiling, gene mapping and genome study.

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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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Standard symbols

Square male, circle female, filled affected, arrow the proband, double line consanguinity.

Haemophilia A

X-linked recessive; a classic counselling pedigree in European royal houses.

Sanghvi

Mapped consanguinity and genetic load in Indian populations, which makes pedigree work locally urgent.

Penetrance

A dominant pedigree can hide non-penetrant carriers, so the chart is a hypothesis, not a diagnosis.

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