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Q6(a)**How would you find out that a particular disease/disorder is inherited and, if so, in which manner? Elaborate with suitable examples**

UPSC Civil Services Mains 2026 · Anthropology GS 1 · 20 marks · Genetic imprints in human disease, genetic screening, genetic counseling, human DNA profiling, gene mapping and genome study.

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(d) Genetic imprints in human disease, genetic screening, genetic counseling, human DNA profiling, gene mapping and genome study.

Facts & figures for this PYQ only.

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

Alkaptonuria

Garrod studied this condition to establish the concept of inborn errors of metabolism following Mendelian recessive inheritance.

Sickle Cell Anaemia

A classic autosomal recessive disorder caused by a single amino acid substitution in the beta-globin chain.

Haemophilia

An X-linked recessive bleeding disorder demonstrating characteristic criss-cross inheritance patterns.

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