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Q8(b)

'Genome-wide Disease Association Studies (GWAS) advanced our understanding of health and disease.' Discuss

UPSC Civil Services Mains 2025 · Anthropology GS 1 · 15 marks · Genetic imprints in human disease, genetic screening, genetic counseling, human DNA profiling, gene mapping and genome study.

(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. This sheet is for revision, not a substitute for the model answer.

<https://wrapexams.com/upsc/mains-answers/anthropology-gs-1/2025/genome-wide-disease-association-studies-gwas-advanced-our-understanding-of-health-and-disease-discuss/>

GWAS

A study design that tests many common genomic markers for statistical association with a disease or quantitative trait.

SNP

A single-nucleotide polymorphism: a one-base difference used as the usual GWAS marker.

Polygenic score

A sum of many GWAS effects used to rank genetic liability. It is sensitive to the ancestry of the training sample.

Missing heritability

The gap between how much variation GWAS currently explains and how much family studies suggest is inherited.

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