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Prelims PYQ, Mains model answers, and copy evaluation. Write to the desk for this paper, a doubt, or the AI waitlist.

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Q1(a)

Mendelian and non-Mendelian traits.

UPSC Civil Services Mains 2025 · 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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Mendel's laws

Segregation at a locus and independent assortment of unlinked loci. This is the baseline for pedigree analysis in humans.

ABO blood groups

One autosomal locus with alleles I^A , I^B and i . A and B are codominant; i is recessive. Transmission is still Mendelian.

PTC tasting

A classic taster versus non-taster contrast used in family studies as a Mendelian marker.

Haemophilia A

An X-linked recessive clotting disorder. Pedigrees show affected males and carrier mothers, including historic royal families.

Polygenic traits

Stature and skin colour involve many loci of small effect plus environment, producing a continuous distribution.

Mitochondrial inheritance

mtDNA is transmitted through the mother. Children of either sex may show the trait; affected males do not pass it on.

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