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Q7(a)

**Critically discuss the Mendelian principles and their application to human populations.**

UPSC Civil Services Mains 2016 · Anthropology GS 1 · 20 marks · Human Genetics

9.1 Human Genetics: Methods and Application: Methods for study of genetic principles in man-family study (pedigree analysis, twin study, foster child, co-twin method, cytogenetic method, chromosomal and karyo-type analysis), biochemical methods, immunological methods, D.N.A. technology and recombinant technologies.

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-1/2016/critically-discuss-the-mendelian-principles-and-their-application-to-human-populations/>

**Mendel**

1866 pea experiments; recovered in 1900 by Correns, de Vries, and Tschermak.

**Hardy-Weinberg**

$p^2 + 2pq + q^2$ ; the null model for allele frequencies.

**Sanghvi**

Indian consanguinity and genetic load.

**Haemophilia**

X-linked pedigree that taught sex linkage in humans.

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