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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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Q5(e)

DNA technology in Medicine.

UPSC Civil Services Mains 2015 · Anthropology GS 1 · 10 marks · Applications of Anthropology

12. Applications of Anthropology: Anthropology of sports, Nutritional anthropology, Anthropology in designing of defence and other equipments, Forensic Anthropology, Methods and principles of personal identification and reconstruction, Applied human genetics-Paternity diagnosis, genetic counselling and eugenics, DNA technology in diseases and medicine, serogenetics and cytogenetics in reproductive biology.

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-1/2015/dna-technology-in-medicine/>

PCR

Amplifies target DNA; foundation of diagnostic genetics.

NIPT

Screens common aneuploidies from cell-free fetal DNA.

Thalassaemia

An Indian public-health target for carrier screening and prenatal diagnosis.

NGS

Massively parallel sequencing for panels, exomes, and tumours.

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