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Q6(c)

Describe the practical applications of DNA technology in the current scenario.

UPSC Civil Services Mains 2023 · Anthropology GS 1 · 15 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-1/2023/describe-the-practical-applications-of-dna-technology-in-the-current-scenario/>

Alec Jeffreys, 1984

Introduced DNA fingerprinting, the basis of forensic identity testing.

PCR

Polymerase chain reaction, a copying method used in diagnosis, forensics, and research.

CRISPR

A programmable gene-editing system now in early clinical use for some monogenic conditions.

Svante Pääbo

Pioneered ancient DNA recovery, including Neanderthal genomes.

STR profile

A panel of short tandem repeats used to match a person or a close relative in forensic casework.

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