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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(b)

Genetic imprinting in human diseases

UPSC Civil Services Mains 2022 · 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-1/2022/genetic-imprinting-in-human-diseases/>

Prader-Willi

Hypotonia, hyperphagia, and intellectual disability after missing paternal 15q material.

Angelman

Severe developmental disorder after missing maternal UBE3A function.

Haig

Kinship theory of imprinting: paternal genes favour foetal extraction, maternal genes restrain it.

11p

Imprinted growth cluster involved in Beckwith-Wiedemann and Silver-Russell syndromes.

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