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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.

ask@wrapexams.com · +91 85951 84903 · wrapexams.com

Q3(b)

Explain the genetic mechanisms of micro and macro evolution

UPSC Civil Services Mains 2021 · Anthropology GS 1 · 15 marks · Synthetic theory of evolution

(c) Synthetic theory of evolution; Brief outline of terms and concepts of evolutionary biology (Doll's rule, Cope's rule, Gause's rule, parallelism, convergence, adaptive radiation, and mosaic evolution).

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-1/2021/explain-the-genetic-mechanisms-of-micro-and-macro-evolution/>

Hardy-Weinberg

The null model of no change; violation names a microevolutionary force.

Mayr

Biological species concept and allopatric speciation linked genetics to the origin of taxa.

Eldredge and Gould

Punctuated equilibrium read the fossil record as stasis plus rapid branching.

Sickle cell

Selection at one locus as a micro process with large medical phenotype.

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