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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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Q6

Stem cell therapy is gaining popularity in India to treat a wide variety of medical conditions including leukaemia, Thalassemia, damaged cornea and several burns. Describe briefly what stem cell therapy is and what advantages it has over other treatments?

UPSC Civil Services Mains 2017 · GS III · 10 marks · Indian Economy

Indian Economy and issues relating to planning, mobilization of resources, growth, development and employment.

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.

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Haematopoietic stem cell transplant

Standard treatment that rebuilds bone marrow after leukaemia therapy or for some inherited blood diseases including thalassemia when a match exists.

Limbal stem cells

Cells at the corneal limbus that renew the eye surface; grafts can restore vision when chemical injury destroys that niche.

Autologous vs allogeneic

Own-cell grafts avoid immune rejection; donor grafts can cure but risk graft-versus-host disease.

ICMR-DBT 2017

National guidelines on stem cell research and therapy that restrict commercial unproven treatments and set ethics and trial rules.

Cord blood

A source of haematopoietic stem cells stored in public or private banks; public registries matter more for matched unrelated transplants.

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