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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

What do you understand by nanotechnology and how is it helping in health sector?

UPSC Civil Services Mains 2020 · 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.

<https://wrapexams.com/upsc/mains-answers/gs-3/2020/what-do-you-understand-by-nanotechnology-and-how-is-it-helping-in-health-sector/>

Nano Mission

DST programme that funds Indian nanoscience and applications, including some health projects.

Liposomal drugs

Nano-scale lipid vesicles used to deliver difficult or toxic molecules with a better safety profile.

Gold nanoparticles

Common labels in rapid diagnostic strips because of strong colour at small size.

LNP mRNA vaccines

Lipid nanoparticles that packaged mRNA COVID vaccines in 2020; a landmark nano-formulation, not India's first indigenous COVID platform.

Silver nano coatings

Used in some medical devices and dressings for antimicrobial effect; resistance and toxicity still need watching.

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