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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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Q13

Why is nanotechnology one of the key technologies of the 21st century? Describe the salient features of Indian Government's Mission on Nanoscience and Technology and the scope of its application in the development process of the country.

UPSC Civil Services Mains 2016 · GS III · 12 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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Nanometre scale

Roughly one to one hundred nanometres: the size range where surface and quantum effects change material behaviour.

Nano Mission 2007

Mission on Nano Science and Technology, Department of Science and Technology, with a Nano Mission Council.

Centres of excellence

Shared high-end characterisation and fabrication facilities funded so many groups can use one microscope or clean room.

Platform technology

A tool-set that feeds many sectors at once, similar to information technology or biotechnology.

Nano-filtration

Membrane and particle methods that can treat water; a high-priority application for Indian public health if sludge is handled.

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