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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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Q16

The Nobel Prize in Physics of 2014 was jointly awarded to Akasaki, Amano and Nakamura for the invention of Blue LEDs in 1990s. How has this invention impacted the everyday life of human beings ?

UPSC Civil Services Mains 2021 · GS III · 15 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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2014 Nobel Physics

Jointly awarded to Isamu Akasaki, Hiroshi Amano, and Shuji Nakamura for blue LEDs.

Gallium nitride

Semiconductor material that made bright blue LEDs possible.

White LED

Typically a blue LED plus yellow phosphor; the everyday lighting product.

UJALA

Indian programme that bulk-procured LED lamps and cut household lighting load.

Solar lantern

Off-grid lamp that became practical because LEDs draw little power from a small panel and battery.

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