

(Please do not write anything except the question number in this space)

कृपया इस स्थान में प्रश्न संख्या के अतिरिक्त कुछ न लिखें।

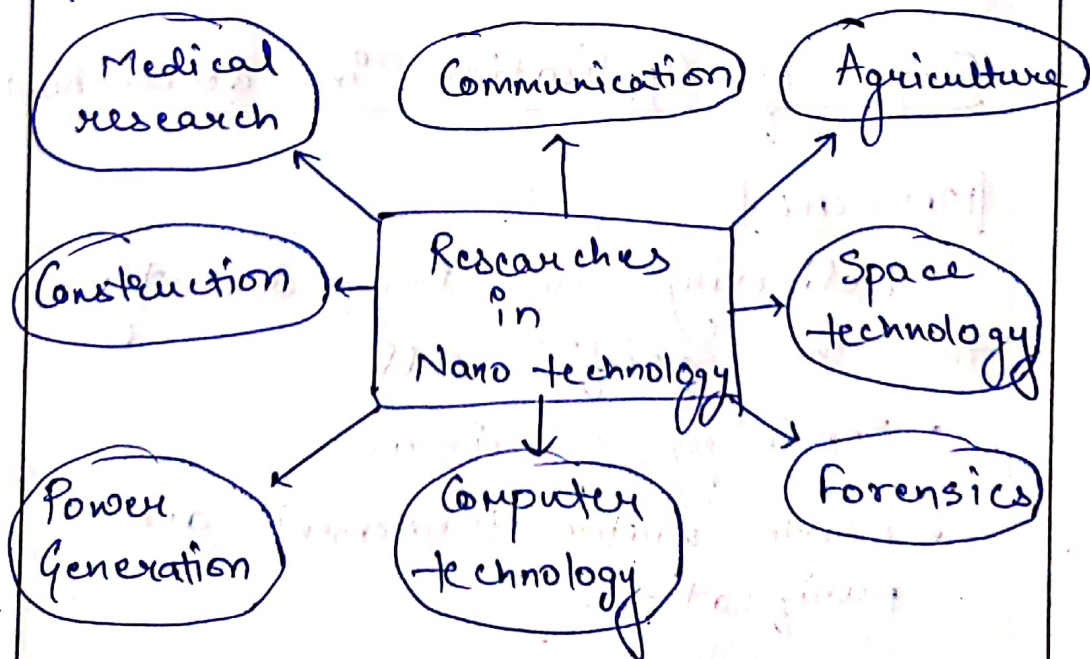
UPSC

उम्मीदवारों को इस हाशिए में नहीं लिखना चाहिए

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Q Why is Nanotechnology one of the key technology of the 21st Century? Describe the salient feature of Indian government's Mission on Nanoscience and Technology and the scope of its application in the development process of the Country [150 w]

A: Nano technology is one of the key technology of the 21st Century as it is having the potential for development as well as possibilities of various result in different applications as well as fields.



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→ Salient features of Mission on Nanotechnology & Nano Science

- Infrastructure development would help us to increase in PPP Models and will also lead to increase in foreign investments.
- Increase in Research and Development to make equipments and product using Nano technology.
- Emphasizing on linkage of Educational institutes with Research institute to improve education and man power.

⇒ Scope of Application in development

MEDICAL

- Delivering of Drug directly to the specific cell
- Repairing of tissue
- Waste water treatment, air purification.

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POWER GENERATION

- Construction of Best Solar cell to absorb ~~so~~ much more light
- Increase in efficiency of Combustion engine.

INFORMATION & TECHNOLOGY

- High-end Storage Devices
- Display Construction with low energy consumption
- Construction of Quantum Computer.

So, Basically Nano-technology can be also useful in Defence, Aerospace, Agriculture and hence government should focus on the growth of it as it could lead us to greater height.