

इस हार्शिए  
में केवल  
प्रश्न संख्या  
लिखें।

Only write  
question  
number in  
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Specimen Booklet

# UPSC

Candidate must adhere to the word limit specified in the question.  
Any page or portion of the page left blank must be clearly struck off.

2. Discuss various strategies that are required to boost nascent Indian Deep tech ecosystem.

Four technological battlegrounds like Semiconductors, 5G, Revolution of biology and autonomy are more prone to military strikes and supply chain disruption. India is at bottom of ladder in these areas

Need for deep tech

India is pushing for self reliance in various areas. But to become a developed country at 'Amit Kaal', India need deep tech atleast in some sectors.

Crucial Role of funding

Global example - countries like US, NATO countries are Deep tech are highly funded by government. This enabled link between IITs and producing hungry Industries.

In India this bridge is not addressed,

Need for funding

Venture capitalist are hesitant to invest in deep tech. concerns cited are long gestation period in deep tech eg: 10 years to mature

Deep tech are of dual use. Eg:

They can be used both for commercial & strategic sectors  
eg (missile launchers)

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Tapping fund - Redirecting CSR and tax incentives to  
"India Strategic fund" High Networth  
Individuals  
CSR funding

In India, ₹15000 cr CSR funds are traditionally  
provided to social activities. But most of these  
funds are under utilised. These can be used for  
Strategic technology.

Tax benefits

• High Networth Individuals can be given tax  
benefits for equity investments in deep tech.

Regulatory mechanisms

Setting qualifying criteria Restricting pooling  
Investment to GoI recognised startups,

way forward

Deep tech can be promoted utilising the  
"India Strategic fund", which will be crucial for  
strategic technologies to make India a developed  
nation