प्रश्न संख्या (Question No.)

U.P.S.C.

इस भाग में कुछ न लिखें (Don't write anything in this part)

Q India need a holistic approach to tackle newest threat in the cyber space sector from quantum techniques. Explain.

A A report says that Indian army is developing cryptographic techniques to make its network resistant to attack by system with quantum capabilities.

Last year establish a quantum computing laboratory at the Military engineering institute in Mhow Madhya pradesh.

- India will have to deal with a cyber risk arising from quantum computing.

In U.S.A, the USA national Quantum initiative act has already allocated $ 1.2 billion for research in defence-related quantum technology.

- China is the 2nd world's fastest quantum computer

- India is getting slowly but steadily, In feb 2022, a joint team of the defence Research & development organisation & IIT-delhi successfully

प्रश्न संख्या (Question No.)

U.P.S.C.

इस भाग में कुछ न लिखें (Don't write anything in this part)

demonstrated. between two cities in U.P & vidhayanchal

•) In 2019, Centre declared "Mission of national importance".

•) Union Budget 2020-21 had proposed to spend Rs. 8000 crore on newly launched National mission on Quantum.

what to do

1) India must starts its national initiative to develop quantum-resistant system.

2) Government can provide fund & encourage source related project.

3) Country should start developing capabilities in a quantum resistant communications especially for critical strategic sector.

4) Make diplomatic partnership with other "techno-democracies"

So, to control or tackle this new threats India should do play a major role in this new era of quantum technique.