

What are the challenges and impact of the internet security through communication networks?

According to the IT Act 2008, Computer or communication network ~~is the resource of~~ one or more computers through satellite or microwave, whether or not continuously maintained, which upon incapacitation or destruction shall have debilitating impact on Nation's public health, security and economy security

CHALLENGES

- Externally sourced hardware and software
→ India has 20% of china's HUAWEI manufacturers where Indian manufacturers = 2%.

- Most of the infrastructure are in the hands of private companies which view auditing as an Extra Burden

IMPACTS

Leads to destruction of innovation and indigenization

Mix administration more prone to the information hacking

You need to Write smaller sentences. The introductory line is too long

Review You possess Good writing skills. To further increase your marks 1); Start writing Smaller sentences. 2) the introduction and conclusion has too long lines. 3) further use Of examples Will help substantiate your answer Better.

Here you
Could have
Given examples
To substantiate
Your answer
For ex. Stuxnet,
wannacry, Petya

- Non-state actors waging cyberwarfare, ~~hijacking~~ hijacking with the deadly viruses, spying, blocking the access

Disruption in the day-to-day activities + Misuse of the hacked data

- Collapse of our critical infrastructure and causes threats to the country's security

→ Portray negative view or incapability on the global level leads to trust issues

Here ex could be given of Iranian cyber Attack on new York dam, triton malware attack on Saudi petrochemical plant.

According to NMI

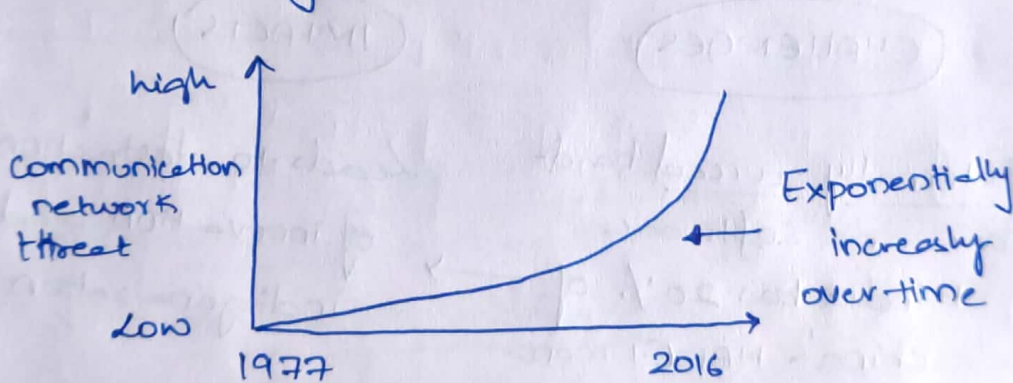


fig. Demonstration of the network threats

SUGGESTIONS/SOLUTIONS

→ Implementing dedicated agencies like Computer Emergency Response Team (CERT) and National Critical Information Infrastructure protection centre (NCIIPC) to be created

to protect the communication network

- Targets needs to be set to reduce and eventually eliminate the cyberattacks and promote indigenous products

Eg: National Telecommunication policy 2012

Targeted to promote domestic telecommunication upto 60-80% by 2020

- Local certification should be made compulsory
- Ministry of communication should urge the tele communication companies to address the security problem such as vulnerability of equipment as ~~soon as possible, otherwise~~ which company need to have the perstality.
- Lastly, one should follow below procedure to reduce the attacks and issues

PROTECT → DETECT → RESPOND → PREDICT

Yet, there is an imperative need to strengthen the information infrastructure through strategic approach, as since they are very crucial for internal security from social, economic and political aspects by focusing more on domestic production of hardware and software through schemes like Production linked Incentives going ahead.