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## ***Nokia opens first-of-its-kind 6G Lab in India***

### ***What is the news?***

- In India, Nokia's 6G Lab in Bengaluru is the first of its kind. Its main goal is to study basic 6G technologies, such as Network as a Sensor, Network Exposure, and Automation. The lab will also be a place where people from business and academia can work together on 6G issues.

### ***The 6G lab backs up the "Bharat 6G Vision" of the Indian government:***

- The 6G Lab is an important step for Nokia in supporting the "Bharat 6G Vision," which wants to make India a world leader in designing, developing, and deploying 6G technology. The project also shows Nokia's dedication to the Indian market.

## *What does “6G” mean?*



- 6G is the next generation of wireless technology, and 5G is likely to be replaced by it.
- While it is still in its early stages of development, it is expected to make big changes to speed, capacity, and delay.
- It is also believed that 6G will make it possible for new services and apps that aren't possible with current technologies.

## *What is India's Bharat 6G plan?*

# 6G



दूरसंचार विभाग

DEPARTMENT OF TELECOMMUNICATIONS

## BHARAT 6G VISION

tecknexus

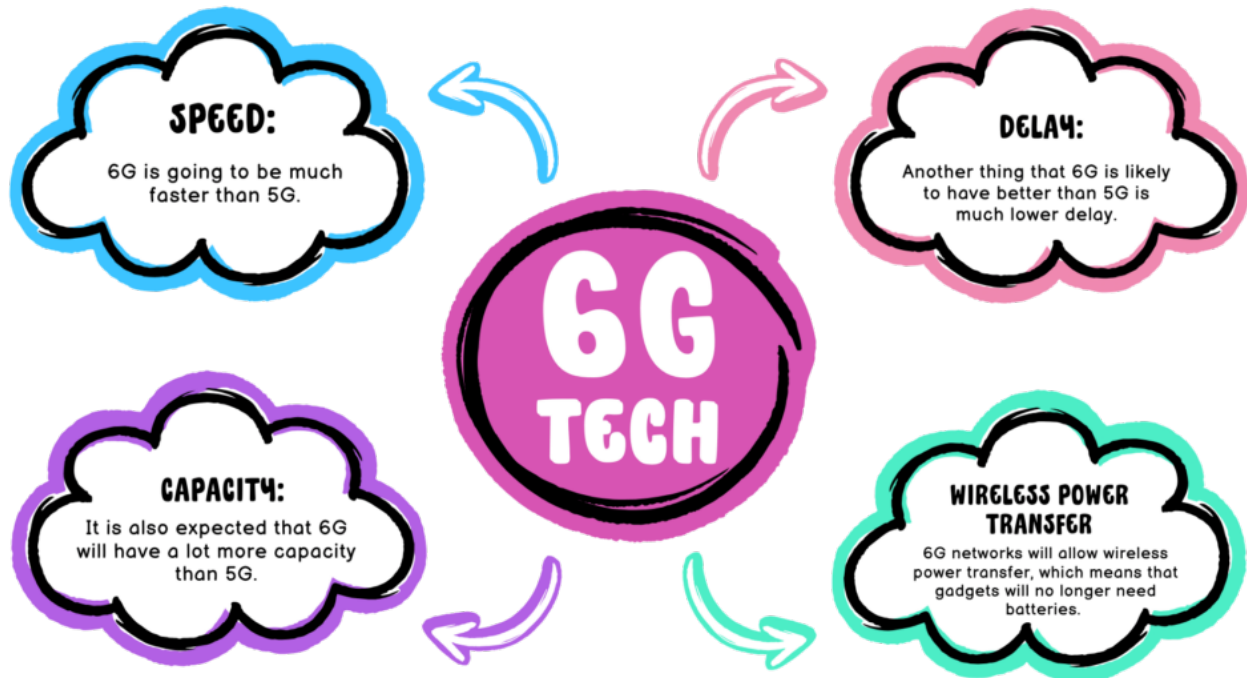
- The Indian government started the Bharat 6G Vision to make India a major player in the creation, development, and use of 6G technology around the world. The goal is to make India a 6G environment that encourages new ideas and business growth.

### ***From an exam point of view, this is important:***

- The world's economy and culture are likely to be changed a lot by 6G technology. It's likely to be very important in the growth of new businesses and services, and it might also have a big effect on businesses that are already in existence.

### ***Let us understand in a clear and exact way:***

- **6G is the next generation of wireless technology, and 5G is likely to be replaced by it. While it is still in its early stages of development, it is expected to make big changes to speed, capacity, and delay.**



**Speed:** 6G is going to be much faster than 5G. It could reach top speeds of 1 terabyte per second. This is a lot faster than the fastest speeds of 5G right now, which are about 10 gigabits per second.

**Capacity:** It is also expected that 6G will have a lot more capacity than 5G. This means that it will be able to handle more devices and users. This is important for uses like the Internet of Things (IoT), where billions of gadgets will likely be linked to the internet.

**Delay:** Another thing that 6G is likely to have better than 5G is much lower delay. Latency is the amount of time it takes for information to get from one place to another. Lower latency is important for real-time games and augmented reality, among other things.



## ***What 6G technology will do to help?***

***Terahertz (THz) band:*** The THz band has speeds and ranges that have never been seen before, but they are hard to work with because they are very weak and can't go very deep. The main goal of 6G study is to create new technologies that can solve these problems and allow for THz communications.

***Artificial intelligence (AI):*** AI will be very important in 6G, helping to handle interference, make the network work better, and keep users safe. AI will also be used to create new services and apps that take advantage of what 6G has to offer.

***Optical wireless communication (OWC):*** OWC sends data using light, which has fast speeds and low delay. OWC is being looked into as a device that can work with radio frequency (RF) communications in 6G networks.

***3D networking***—6G networks will use the third dimension to make range and capacity better. Aerial base sites, satellites, and unmanned aerial vehicles (UAVs) will be used to make this happen.

***Wireless power transfer***—6G networks will allow wireless power transfer, which means that gadgets will no longer need batteries. This will make it possible for new services and apps, like self-driving cars and the Internet of Things (IoT).

## ***Use of technology:***

- There is a set up in the lab to study “Network as a Sensor” technology.
- Network as a Sensor is a device that lets the network pick up on things and movements without having to use

sensors that are built into the network itself. This could be used for many things, like keeping an eye on traffic and keeping people safe.

- Network Exposure is a technology that lets network owners let outside developers use parts of their network. With this, new apps and services could be made that wouldn't be possible any other way.
- Automation is the use of technology to make things run without any help from a person. Automation will likely be very important in 6G networks because they will need to be managed to be so complicated.

## ***QuizTime:***

***Which of the following is NOT a key feature of 6G technology?***

- (a) Speed
- (b) Capacity
- (c) Latency
- (d) Battery life

***Answer: (d) Battery life***

## ***Mains Question:***

# Below Mains Question

Write in Comment Section



***Discuss the significance of Nokia's 6G Lab in Bengaluru for India's Bharat 6G Vision.***

***Model Answer is:***

- For India's Bharat 6G Vision, the Nokia 6G Lab in Bengaluru is a big step forward. The lab's main goals will be to study basic 6G technologies and create new 6G apps and services. The lab will also be a place where people from business and academia can work together on 6G issues.
- India wants to be a leader in developing and using 6G technology, and the lab shows that they are serious about getting there. India is in a great situation to benefit from 6G, which is expected to have a big effect on the world economy and society.
- It's also possible that the lab will help make jobs and grow the Indian economy. New businesses and services can be made possible by the study and creation of new technologies. The lab might also help India get more input from other countries.
- Overall, the fact that Nokia's 6G Lab has opened in Bengaluru is good news for India's Bharat 6G Vision. The

lab is expected to be an important part of the planning and carrying out.



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Hindi.*

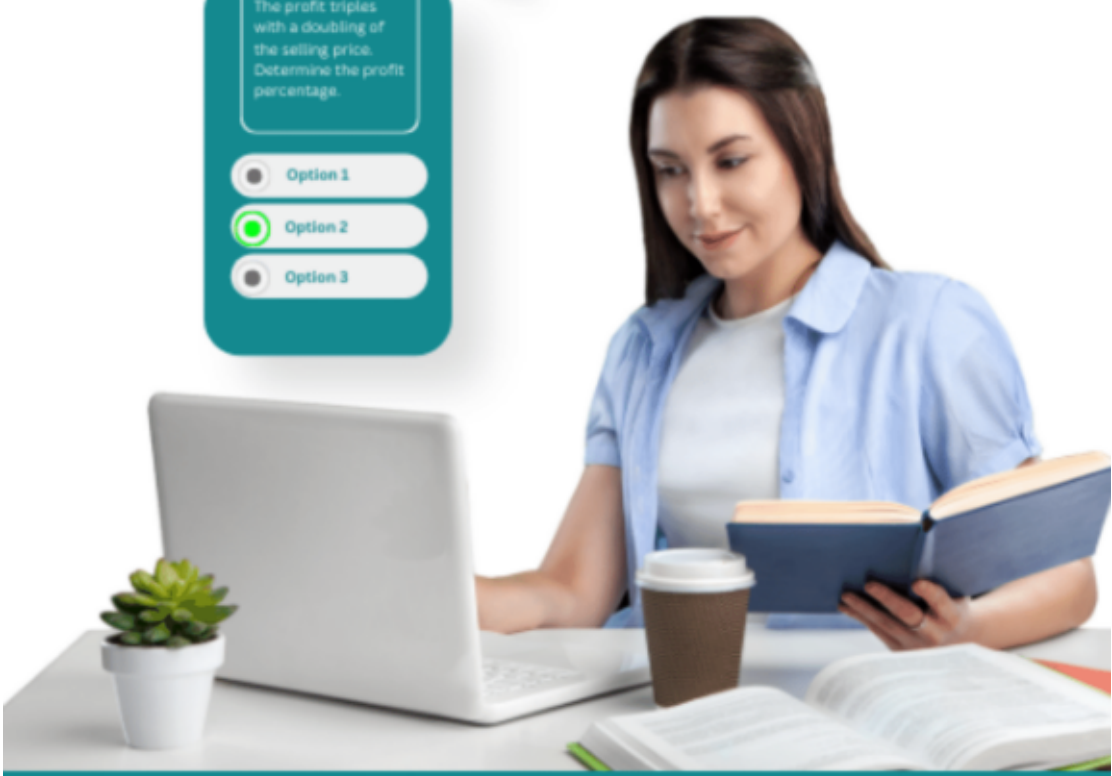
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# Quiz Time

The profit triples with a doubling of the selling price. Determine the profit percentage.

- Option 1
- Option 2
- Option 3



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