



Next-Gen Speed: 6G Networks 9000x Faster than 5G

Description

Mobile Networks at Sunset

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Wireless data can now be sent very fast, much faster than current 5G speeds. This means you could download a lot of movies very quickly. This speed is a record for sending multiple signals at once.

At big events or busy places, phone networks can get very slow. This is because 5G networks use limited frequencies to operate. To make data transmission faster, scientists are using a wider range of frequencies, from 5 gigahertz to 150 gigahertz.

By using different technologies, they were able to send data at 938 Gb/s, much faster than current 5G speeds. This could help people use the internet faster or allow many people to watch videos at the same time.

This new way of sending data is like turning a narrow road into a big highway, allowing more cars (or data) to pass through. Researchers hope future smartphones and networks will use this technology.

Vocabulary List:

1. **Transmission** /trænz'mɪʃən/ (noun): The act or process of sending data from one place to another.
2. **Frequencies** /'fri:.kwən.sɪ:z/ (noun): The rate at which something occurs over a particular period of time or in a given sample.
3. **Technologies** /tek'nɒlədʒiz/ (noun): The application of scientific knowledge for practical purposes especially in industry.
4. **Simultaneously** /sɪməl'teɪniəsli/ (adverb): At the same time; concurrently.
5. **Researchers** /rɪ'sɜ:r.tʃərz/ (noun): Individuals who conduct systematic investigation to establish facts or principles or to collect information on a subject.
6. **Capacities** /kə'pæsɪtɪz/ (noun): The maximum amount that something can contain or the ability to do something.

Comprehension Questions

Multiple Choice

1. What is one advantage of sending wireless data faster than current 5G speeds?

Option: Downloading movies quickly
Option: Increasing battery life
Option: Reducing network coverage
Option: Slowing down data transmission

2. Why do phone networks get very slow at big events or busy places?



- Option: Limited frequencies of 5G networks
- Option: Too many satellites in space
- Option: Low signal strength
- Option: Old network infrastructure

3. What range of frequencies are scientists using to make data transmission faster?

- Option: 1 GHz to 5 GHz
- Option: 5 GHz to 150 GHz
- Option: 200 MHz to 1 GHz
- Option: 150 GHz to 300 GHz

4. What speed were researchers able to achieve in sending data using different technologies?

- Option: 200 Gb/s
- Option: 500 Gb/s
- Option: 938 Gb/s
- Option: 1 Tb/s

5. How is the new way of sending data compared in the text?

- Option: A small canal to a river
- Option: A narrow road to a big highway
- Option: A single lane to a multi-lane highway
- Option: A bike path to a freeway

6. What is one possible benefit mentioned for using the technology of sending data at higher speeds?

- Option: Reduced data consumption
- Option: Faster image processing
- Option: Improved gaming experience
- Option: Allowing many people to watch videos at the same time

True-False

- 7. Wireless data speed faster than current 5G speeds is not useful for downloading movies quickly.
- 8. Phone networks get slow at big events due to the increased usage of limited frequencies by 5G networks.
- 9. The wider range of frequencies scientists are using to make data transmission faster is from 1 GHz to 10 GHz.



10. The achieved speed of 200 Gb/s was faster than current 5G speeds.
11. The analogy used to describe the new way of sending data is like turning a narrow road into a highway.
12. Future smartphones and networks are not expected to adopt the new technology for faster data transmission.

Gap-Fill

13. The wider range of frequencies scientists are using for faster data transmission is from 5 GHz to _____ GHz.
14. Researchers were able to achieve a data transmission speed of 938 Gb/s, which is much faster than current _____ speeds.
15. The new way of sending data is likened to turning a narrow road into a big highway, allowing more data to pass through like more cars on a highway during a _____.
16. The technology of sending data at high speeds could allow many people to watch videos at the same time, improving the overall _____ experience.
17. Researchers hope that future smartphones and networks will utilize this technology for faster and more efficient data _____.
18. Wireless data being sent very fast opens up possibilities of downloading a large amount of data quickly, such as downloading _____.

Answer

Multiple Choice: 1. Downloading movies quickly 2. Limited frequencies of 5G networks 3. 5 GHz to 150 GHz 4. 938 Gb/s 5. A narrow road to a big highway 6. Allowing many people to watch videos at the same time
True-False: 7. False 8. True 9. False 10. False 11. True 12. False
Gap-Fill: 13. 150 14. 5G 15. traffic jam 16. viewing 17. transmission 18. movies



Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. Which term refers to false or inaccurate information that is spread unintentionally?
Option: Misinformation
Option: Legislation
Option: Controversy
Option: Capacities
2. Which term best describes something that causes disagreement or disunity?
Option: Fines
Option: Divisive
Option: Discount
Option: Premium
3. What term refers to the process of returning to a normal state of health mind or strength?
Option: Activities
Option: Treatment
Option: Recovery
Option: Technologies
4. Which term means the state of peacefulness or tranquility?
Option: Dispute
Option: Calm
Option: Anxiety
Option: Serotonin
5. What term describes a powerful effect that something especially something new has on a situation or person?
Option: Exciting
Option: Impact
Option: Regulations
Option: Anxiety
6. Which term refers to the act or process of sending something from one person place or thing to another?
Option: Frequencies
Option: Simultaneously
Option: Transmission
Option: Researchers



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7. Which term refers to the application of scientific knowledge for practical purposes especially in industry?
- Option: Bundled
 - Option: Exclusive
 - Option: Premium
 - Option: Technologies
8. Who are the people who conduct detailed investigations to discover facts or test hypotheses?
- Option: Capacities
 - Option: Researchers
 - Option: Exciting
 - Option: Misinformation
9. What term describes the management and care of a patient to combat a disease or disorder?
- Option: Fines
 - Option: Treatment
 - Option: Discount
 - Option: Collection
10. Which term refers to the abilities or power of a person or thing?
- Option: Simultaneously
 - Option: Capacities
 - Option: Isolation
 - Option: Exciting

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

11. _____ can often be managed through relaxation techniques and mindfulness practices.
12. _____ is a neurotransmitter that is associated with feelings of well-being and happiness.
13. _____ plays a crucial role in shaping the rules and regulations governing a society.
14. The prospect of exploring new opportunities can be both challenging and _____.
15. Businesses must adhere to strict _____ to ensure fair competition in the market.



16. Some people use music as a _____ to help them focus while studying or working.
17. Different radio stations operate at varying _____ to avoid interference.
18. Stamp enthusiasts often engage in the _____ of rare and unique stamps.
19. The software package was _____ with various tools and applications for convenience.
20. Customers were willing to pay a _____ for the exclusive and high-quality products.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)

21. Political can lead to social instability and protests.
22. The film sparked heated due to its sensitive subject matter.
23. Persistent feelings of worry and fear are common symptoms of generalized .
24. is a potent pain-relieving medication commonly used in healthcare settings.
25. The orchestra played in perfect harmony each musician contributing their part .
26. The members of the club enjoy access to private events and facilities.
27. Customers can avail of a 10% off their purchase with a special coupon.
28. The spread of can have serious repercussions on public understanding.
29. Embarking on a new adventure can be both nerve-wracking and at the same time.
30. Being a pet owner comes with the of providing care and attention to your animal.

Answer

Multiple Choice: 1. Misinformation 2. Divisive 3. Recovery 4. Calm 5. Impact 6. Transmission 7. Technologies
8. Researchers 9. Treatment 10. Capacities

Gap-Fill: 11. Anxiety 12. Serotonin 13. Legislation 14. Exciting 15. Regulations 16. Distraction 17.
Frequencies 18. Collection 19. Bundled 20. Premium

Matching sentence: 1. Unrest 2. Controversy 3. Anxiety 4. Morphine 5. Simultaneously 6. Exclusive 7.
Discount 8. Misinformation 9. Exciting 10. Responsibility



CATEGORY

1. Sci/Tech - LEVEL2

Date Created

2024/10/17

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