



Fundação CECIERJ - Vice Presidência de Educação Superior a Distância
Curso de Tecnologia em Sistemas de Computação
Disciplina: Inglês Instrumental
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Nome:

Assinatura:

Obs. A prova poderá se digitada ou manuscrita (em caneta).

Leia o texto e responda às questões.

What is 5G and what will it mean for you?

28 January 2020

Superfast fifth generation, or 5G, mobile internet services are already on offer. So what difference will 5G make to our lives?

What is 5G exactly?

It's the next generation of mobile internet connection and offers much faster data download and upload speeds. Through greater use of the radio spectrum it will allow far more devices to access the mobile internet at the same time.

The speed you get will depend on which spectrum band the operator runs the 5G technology on and how much your carrier has invested in new masts and transmitters.

What will it enable us to do?

"Whatever we do now with our smartphones we'll be able to do faster and better," says Ian Fogg, from a mobile data analytics company.

Imagine swarms of drones co-operating to carry out search and rescue missions, fire assessments and traffic monitoring, all communicating wirelessly with each other and ground base stations over 5G networks.

Mobile gamers should notice less delay. Video calls should become clearer and less jerky. Wearable fitness devices could monitor your health in real time, alerting doctors as soon as any emergency arises.

So how fast could it be?

The fastest current 4G mobile networks offer about 45Mbps (megabits per second) on average. However, Chipmaker Qualcomm reckons 5G could achieve browsing and download speeds about 10 to 20 times faster in real-world (as opposed to laboratory) conditions. That would allow you to download a high-definition film in a minute or so.

Why do we need it?

The world is going mobile and we're consuming more data every year, particularly as the popularity of video and music streaming increases. Existing spectrum bands are becoming congested, leading to breakdowns in service, particularly when lots of people in the same area are trying to access online mobile services at the same time.

5G is much better at handling thousands of devices simultaneously, from mobiles to equipment sensors, video cameras to smart street lights.

(adapted from bbc.com/news/business)

Glossary

carrier: operadora; swarms: enxames/multidões; jerky: irregular/tremido; calcula/estima; health:saúde; arises: surge; breakdown: pane/interrupção; hand com/operar

1. A frase "The world is going mobile and we're consuming more data every year, [...]" significa: (1 pt)

- A. ☐ Estamos cada vez mais unidos.
- B. ☐ Estamos cada vez mais conectados.
- C. ☐ Estamos imersos num universo analógico.

2. Observe a frase: "Whatever we do now with our smartphones we'll be able to do faster and better, [...]" De acordo com esta afirmativa, a grande vantagem da tecnologia 5G será: (1 pt)

- A. ☐ sua velocidade e adaptabilidade
- B. ☐ sua adaptabilidade e alta definição
- C. ☐ sua velocidade e perfeição

3. Outra vantagem da tecnologia 5G é considerada no texto. Marque a alternativa que fala sobre isso. (1 pt)

- A. ☐ A tecnologia 5G pode lidar com inúmeros dispositivos ao mesmo tempo.
- B. ☐ A cooperação dos drones é fundamental para a nova tecnologia.
- C. ☐ As bandas largas existentes estão ficando congestionadas.

4. O texto discute as contribuições da tecnologia 5G para a área da saúde. Marque duas alternativas que falam sobre essa contribuição.(1 pt)

- A. ☐ Monitorar a saúde em tempo real.
- B. ☐ Ativar os dispositivos móveis.

- C. () Alertar o médico em caso de mudança no quadro geral do paciente.
D. () Verificar as condições da banda larga local.

5. Qual será o efeito da tecnologia 5G no uso de vídeos? (1,5 pt)

6. Observe os qualificadores desta frase: "Whatever we do now with our smartphones we'll be able to do faster and better, [...]" Que ideia eles transmitem à observação de Ian Foggs? (1 pt)

- A. () ideia de contradição
B. () ideia de adição
C. () ideia de comparação

7. Qual é a relação lógica que o conector **HOWEVER** estabelece nesta sequência do texto: "However, Chipmaker Qualcomm reckons 5G could achieve browsing and download speeds about 10 to 20 times faster in real-world (as opposed to laboratory) conditions." ? (1 pt)

- A- () Causa
B- () Contraste
C- () Consequência

8. Na frase "Why do we need **it**?" a que se refere **it**? (1 pt)

- A. () 45Mbps
B. () 5G
C. () 4G

9. Estes três sintagmas nominais foram retirados do texto. Sublinhe o núcleo de **A** e circule os modificadores de **B** e **C**. (1,5 pt)

- A. Wearable fitness devices
B. a high-definition film
C. Existing spectrum bands