



## ▶ Questão 16

Before \_\_\_\_\_ ways to accelerate the process, I should give a few more details on how the system works.

- A) suggest
- B) suggested
- C) suggests
- D) suggesting
- E) had suggested

### Resolução:

De acordo com a gramática da língua inglesa, o verbo sempre será grafado como sufixo *-ing*, se posicionado após uma preposição, como é o caso de *before*.

Alternativa D

## ▶ Questão 17

A different and somewhat \_\_\_\_\_ approach than changing all the rules may work when a product fails to comply but still satisfies the purpose of the regulations. In these cases, minor adjustments may save a lot of the work done before.

- A) fast
- B) faster
- C) as fast as
- D) fasting
- E) not fast

### Resolução:

A presença da partícula *than* na frase pressupõe uma forma comparativa. *Faster* é o comparativo de superioridade de *fast*.

Alternativa B

## ▶ Questão 18

AT&T said presale \_\_\_\_\_ were 10 times higher than they were for the previous version of the iPhone.

- A) orders
- B) sequences
- C) invitations
- D) commands
- E) pleads

### Resolução:

Uma das possíveis traduções para o vocábulo *order* é "pedido", sentido que completa corretamente a oração.

Alternativa A

**▶ Questão 19**

Advocates of hydrogen-fuel-cell propulsion have a new \_\_\_\_\_ for their technology: trolleys. Engineers and transit planners concluded that streetcars are an ideal early application for hydrogen propulsion.

- A) arrow
- B) bow
- C) target
- D) bullet
- E) weapon

**Resolução:**

Os defensores da propulsão a hidrogênio têm um novo alvo: os bondes. O vocábulo alvo é *target*

**Alternativa C**

**▶ Questão 20**

The British communications \_\_\_\_\_ has released a road map calling for the completion of the nation's move from analog FM to the digital audio broadcast (DAB) standard by the end of 2015.

- A) monastery
- B) temple
- C) ministry
- D) accessory
- E) highway

**Resolução:**

Obviamente, o trecho cita o Ministério das Comunicações Britânico. A lacuna pode ser preenchida com o termo *ministry* que, apesar de ter outro significado no contexto religioso, em política é cognato de ministério.

**Alternativa C**

**LEIA AS PASSAGENS SEGUINTE E MARQUE A ALTERNATIVA CORRETA**

**TEXTO PARA QUESTÕES 21 A 22**

Is 'Facebook', the social networking website, making us narcissist? A new book argues we're much more self-absorbed nowadays, stating that technology is to blame. I tweet, therefore I am. Or is it, I tweet, therefore I am insufferable? As if adult celebrities that pop out on the red carpets weren't clue enough, we now have statistical evidence that we are a lot more in love with ourselves than we used to be. This social phenomenon has raised fields of research to academic studies nowadays. In the book 'The Narcissism Epidemic: Living in the Age of Entitlement', Jean M. Twenge, a professor of psychology at San Diego State University, and W. Keith Campbell, a social psychologist at the University of Georgia, look to the Narcissistic Personality Inventory, which measures self-regard, materialism, and lack of empathy. They found that the number of college students scoring high on the test has risen by 30 percent since the early 1980's.

**▶ Questão 21**

What kind of human behavior is central to the study mentioned in the text?

- A) the alienation of the celebrities from the others around them
- B) addiction to technology
- C) the high scoring of college students in academic tests
- D) the hard work of social psychologists
- E) excessive positive feelings and admiration of oneself

**Resolução:**

A definição de narcisismo é "um sentimento excessivamente positivo de si mesmo", que consta na letra E.

**Alternativa E**

**▶ Questão 22**

What has NOT been encouraging people to act the way described in the text?

- A) technology
- B) narcissism
- C) materialism
- D) psychology
- E) entitlement

**Resolução:**

Todos os itens citados encorajam o narcisismo nas pessoas, exceto a psicologia, que o estuda.

**Alternativa D**

**TEXTO PARA QUESTÕES 23 A 24**

Scientists say juggling e-mail, phone calls and other incoming information can change how people think and behave. They say our ability to focus is being undermined by bursts of information. These play to a primitive impulse to respond to immediate opportunities and threats. The stimulation provokes excitement — a dopamine squirt — that researchers say can be addictive. In its absence, people feel bored. The resulting distractions can have deadly consequences, as when cell phone-wielding drivers and train engineers cause wrecks. And for millions of people these urges can inflict nicks and cuts on creativity and deep thought, interrupting work and family life.

**▶ Questão 23**

What does the passage imply?

- A) Bursts of information improve people's ability to focus.
- B) Scientists play with the primitive human impulses of responding to immediate opportunities and threats.
- C) People feel bored when they talk on their cell phones or read their emails, nevertheless they are addicted to it.
- D) Feeling excited at work and among family members demands creativity.
- E) Being constantly fed with different stimuli from multiple sources may make people unable to get rid of such excitement.

**Resolução:**

O texto nos faz concluir que "ser constantemente alimentado por estímulos de múltiplas fontes torna a pessoa incapaz de livrar-se de tal entusiasmo, emoção", conforme expresso na opção E.

**Alternativa E**

**▶ Questão 24**

The text states that human beings instinctively ...

- A) provoke opportunities and threats to other human beings.
- B) move towards that which threatens them.
- C) react to sudden changes they experience.
- D) interrupt work and family life.
- E) undermine bursts of information.

**Resolução:**

O texto cita um *primitive impulse*, que podemos traduzir com instinto, que nos leva a reagirmos rapidamente à mudança no ambiente.

**Alternativa C**

**TEXTO PARA QUESTÕES 25 A 26**

The history of technology is full of breakthroughs in one field that wound up working wonders in a related one. The 300B vacuum tube, introduced by Western Electric in 1937 to amplify telephone signals, found a far more enduring use as a

high-fidelity audio amplifier. The atomic clocks first used in the 1960's by the U.S. military to track Sputnik and later to validate Albert Einstein's relativity theories are now the basis of Global Positioning System. And of course, the magnetron, invented in the 1920's at General Electric and used in radars during World War II, later found itself repurposed as the basis for the microwave oven.

### ▶ Questão 25

According to the text, what is correct to say?

- A) The 300B vacuum tube is used in car engines to amplify the audio communications systems.
- B) The atomic clocks are now applied to a different device than that of its original idealization.
- C) The history of technology has proved that it may wound humans due to its versatility.
- D) The atomic clocks were used to play song tracks in high fidelity quality.
- E) The Global Positioning System was validated by Albert Einstein's relativity theories.

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#### Resolução:

De acordo com o texto, o relógio atômico havia sido utilizado para determinar a trajetória de um foguete. Atualmente, serve como base para o GPS, que tem finalidade mais ampla: determinar o posicionamento de uma forma geral.

Alternativa B

### ▶ Questão 26

According to the text, complete the sentence: "The microwave oven..."

- A) relies on the proper function of radars.
- B) and the magnetron were repurposed after their inventions.
- C) is one more example of the technological inventions which have benefited from the innovations generated during the space race.
- D) and radars used during the World War II both count on the magnetron as one of its components.
- E) was first idealized at General Electric.

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#### Resolução:

A frase só pode ser complementada com a informação contida na letra D, pois é a única que está de acordo com o texto.

Alternativa D

## TEXTO PARA QUESTÕES 27 A 29

Soon enough, say some engineers, miniature wireless sensors will be located in spots where it would be inconvenient, to say the least, to change their batteries – inside your body, within the steel and concrete of buildings, in the dangerous innards of chemical plants. But today, even the most robust nodes can be counted on to last only a few years. Ideally, engineers need wireless sensors that can last forever without external power sources or battery changes. According to research presented in December at the International Electron Devices Meeting, in Baltimore, that dream is within reach.

### ▶ Questão 27

What inconvenience is mentioned in the text?

- A) The fact that batteries are not lifetime loaded.
- B) The spots where wireless sensors are placed nowadays.
- C) The micro size of wireless sensors.
- D) To use wireless sensors inside the body.
- E) That buildings are made of steel and concrete.

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#### Resolução:

O texto nos informa sobre o inconveniência de aparelhos que não são dotados de baterias vitalícias, que não precisam ser substituídas, informação presente na letra A.

Alternativa A

**Questão 28**

What does the sentence "According to research presented in December at the International Electron Devices Meeting, in Baltimore, that dream is within reach." imply about the text?

- A) In December engineers will come out with a solution for the problem.
- B) At the International Electron Devices Meeting dreams are reached.
- C) The International Electron Devices Meeting is the ideal meeting to discuss new versions of wireless sensors.
- D) Engineers at the International Electron Devices Meeting dream about new inventions in the field of wireless sensors.
- E) It will be possible to produce wireless sensors whose batteries won't need to be recharged.

**Resolução:**

Quando lemos a passagem citada, a única opção possível é a letra E, visto que no referido encontro há a previsão de que em breve a tecnologia estará disponível.

Alternativa E

**Questão 29**

The expression 'to say the least' in the text suggests that...

- A) the situation mentioned may be more than just inconvenient.
- B) there is a list of technological researches that could solve the case presented in the text.
- C) sensors used inside human body are inconvenient.
- D) wireless sensors used within the steel and concrete buildings are a reachable dream.
- E) engineers need a sensor that can last forever without external power sources or battery changes.

**Resolução:**

A expressão "para dizer o mínimo..." se refere à inconveniência da troca de baterias instaladas em locais de difícil acesso. Contudo, pode-se inferir, pela própria expressão, que outras dificuldades são possíveis.

Alternativa A

**Texto para questões 30 e 31**

Recently, I was looking for something online, or probably browsing aimlessly, when I happened on a name I hadn't thought of since I was a child: Alfred P. Morgan. Someone had uploaded a digitized version of *The Boy Electrician*. I was instantly swept back more than half a century to my local library. In my mind I saw the familiar metal shelving and the blue-gray binding of my favorite book, also written – and illustrated – by Morgan: *The Boys' First Book of Radio and Electronics*.

**Questão 30**

What is known about Alfred P. Morgan?

- A) He is fond of digitalized versions of books.
- B) He is an old friend of the writer of the text.
- C) He digitalized his own books to the net.
- D) He is fifty years old.
- E) He is an author of books on electricity and electronics.

**Resolução:**

O autor lembra sua infância, quando lia o livro de Alfred P. Morgan, pois vê uma versão digitalizada de um de seus livros, *The Boy Electrician*. Isso o fez lembrar-se de seu livro favorito, *The Boys' First Book of Radio and Electronics*. O primeiro livro trata de eletricidade e o segundo de eletrônica.

Alternativa E

**Questão 31**

Which of the following expressions is a synonym for 'aimlessly' on the first line of the text?

- A) with less objective
- B) with no special purpose
- C) short in time
- D) with minor interest
- E) out of thoughts

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**Resolução:**

O advérbio *aimlessly* significa “sem um objetivo ou propósito determinado.”

**Alternativa B****Texto para questões 32 a 34**

An old axiom says that in order to know where you are going, you first have to know where you are. To that, add that you should know which way you are facing. Makers of wireless handsets, proving the old axiom true, have already installed Global Positioning System (GPS) receivers, and are now poised to flood the market with phones containing tiny electronic compasses that allow the gadget to sense exactly what direction it's facing.

**▶ Questão 32**

What general idea underlies the paragraph?

- A) phones
- B) electronic compasses
- C) GPS
- D) wireless handsets
- E) orientation features

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**Resolução:**

Apesar de trazer como exemplo os fones de ouvido sem fio, o parágrafo objeto da questão destaca a necessidade de orientação e posicionamento, narrando o lançamento de um telefone que traz micro bússolas eletrônicas para essas mesmas finalidades.

**Alternativa E****▶ Questão 33**

Complete the sentence according to the text: “ A (an) \_\_\_\_\_ will let you know where you are, whereas to know which direction you are looking you need a (an) \_\_\_\_\_.”

- A) GPS receiver – electronic compass
- B) phone – GPS receiver
- C) axiom – wireless handset
- D) face – electronic compass
- E) tiny electronic compass – phone

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**Resolução:**

O enunciado apresenta as definições de “GPS receiver” e de “electronic compass”, respectivamente.

**Alternativa A****▶ Questão 34**

What is known about the makers of wireless handsets?

- A) They know where they are facing.
- B) They are about to launch a new wireless handset device.
- C) They lost their projects in floods.
- D) They based their new invention on the philosophy of axioms.
- E) They want to sell their newest gadgets preferably in markets.

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**Resolução:**

O texto, a partir de sua terceira linha, conta que o fabricante está prestes a inundar o mercado com telefones que vêm as micro bússolas eletrônicas.

**Alternativa B**

It's a little surprising that the land of Sir Isaac Newton does not have its own space agency. An attempt to fill that void came with the announcement in June that the United Kingdom would create a 'bureaucracy busting' organization to oversee British civilian space and satellite activities.

**▶ Questão 35**

What does the author of the passage refer to by the term “void”?

- A) The inexistence of a British space agency.
- B) A gap between the United Kingdom space agency and countries overseas.
- C) The avoidance of studying Sir Isaac Newton’s theories overseas.
- D) The creation of a ‘bureaucracy busting’ organization in Britain.
- E) The fact that the United Kingdom civilian space and satellite activities have no force or validity.

**Resolução:**

O sentido do termo *void* – lacuna, vazio, vácuo – além de poder ser deduzido pelo contexto, refere-se à falta de uma agência espacial britânica.

**Alternativa A**

As both an electrical engineer and a Jesuit priest, Lammert B. Otten can lead a spiritual retreat just as easily as a dam-building project in Zambia. “As an engineer,” he says, “you’re concreting with God to make life better for people.”

**▶ Questão 36**

What task below could Lammert B. Otten be legally in charge of?

- A) suing a criminal
- B) prescribing drugs
- C) piloting a plane
- D) saying a mass
- E) filling in a cavity

**Resolução:**

Dentre as atividades propostas nas opções de múltipla-escolha, a única que poderia ser desempenhada por Lammert B. Otten é a de celebrar missa, já que, além de engenheiro, Lammert é padre jesuíta.

**Alternativa D**

**Texto para questões 37 a 40**

The U.S. Department of Homeland Security (DHS), which operates airport security checkpoints in the United States, is spending upward of US\$ 7 million a year trying to develop technology that can detect the evil intent of the terrorists among us. Yes, you read that correctly: They plan to find the bad guys by reading their minds.

Dozens of researchers across the country are in the middle of a five year program contracted primarily to the Charles Stark Draper Laboratory, in Cambridge, Mass. They’ve developed a psycho-physiological theory of ‘malintent’ – basically, a hodgepodge of behaviorism and biometrics according to which physiological changes can give away a terrorist’s intention to do immediate harm. So far, they’ve spent US\$ 20 million on biometric research, sensors, and a series of tests and demonstrations. This technology is called the Future Attribute Screening Technology (FAST).

The underlying theory is that your body reacts, in measurable and largely involuntary ways, to reveal the nature of your intentions. So as you wait in line at the airport checkpoint, thermal and other types of cameras and laser- and radar-based sensors will try to get a fix on the baseline parameters of your autonomic nervous system – your body temperature, your heart rate and respiration, your skin’s moistness, and the very look in your eyes. Then, as a security officer asks you a few questions, the sensors will remeasure those parameters so that the FAST algorithms can figure out whether you’re naughty or nice, all on the spot, without knowing anything else about you.

**▶ Questão 37**

Considering the central idea of the passage, which of the following suggested titles is suitable to the text?

- A) Airports, delayed planes and biometric research
- B) Airline’s timetable
- C) Mental bad vibes on the body
- D) US\$ 20 million dollars to promote terrorism
- E) Tests and demonstrations in the air

**Resolução:**

O título mais adequado é *Mental bad vibes on the body* porque o texto trata do desenvolvimento de uma tecnologia capaz de interpretar reações no corpo humano que denunciem intenções negativas, como as de um terrorista em um aeroporto.

**Alternativa C**

**▶ Questão 38**

What expression could replace 'malintent' in the second paragraph still keeping the same meaning for the text?

- A) difficult intention
- B) evil purpose
- C) doubtful goal
- D) confusing aim
- E) blur objective

**Resolução:**

O termo em questão, *malintent*, equivale a *evil purpose* porque o prefixo *mal-*, adicionado a *intent*, tem atribuído um sentido negativo quando adicionado a um substantivo, adjetivo ou verbo.

**Alternativa B**

**▶ Questão 39**

What is true about the ideas mentioned in the text?

- A) There is no intention to produce a gadget to read the mind by the body, it is just theory.
- B) The invention described in the text is ready to be worldwide used.
- C) Due to malfunctions, the Future Attribute Screening Technology (FAST) demands more study and demonstration.
- D) The technology described in the text is still in the phase of research and may be used in the future.
- E) The nature of our intentions may not be precisely read once our bodies can develop mechanisms to deceive the others around us.

**Resolução:**

A única informação que pode ser comprovada no texto é a de que a tecnologia descrita ainda está em fase de pesquisa e poderá ser utilizada no futuro.

**Alternativa D**

**▶ Questão 40**

According to the text, your body temperature, your heart rate and respiration, your skin's moistness, and the very look in your eyes ...

- A) are measured after you talk to a security guard.
- B) respond to the environment with involuntary reactions.
- C) have no relation with the FAST algorithms.
- D) can tell whether you have a contagious disease.
- E) can be programmed to lie.

**Resolução:**

As características enumeradas no enunciado são reações que, de acordo com o texto, são alteradas diante de uma situação nova.

**Alternativa B**

**▶ Questão 41**

Answer the following questions, IN ENGLISH, giving your personal opinion. Answer each question in around 25 words.

- 41.1. What is it that does not yet exist and you would like to see invented? Why?
- 41.2. If the whole world were listening, what would you say? Support your answer.
- 41.3. What would you like to be doing in ten years from now? Tell us about your dreams and aims.

**Resolução:**

Respostas variadas.



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