



"A matemática é o alfabeto com que Deus escreveu o mundo"
Galileu Galilei

▶ Questão 16

Cada frase a seguir apresenta 5 (cinco) palavras sublinhadas, dentre as quais uma está ERRADA, tornando a frase gramaticalmente incorreta. Marque a alternativa que torna a frase gramaticalmente INCORRETA.

Crafting clever toys, making beautiful music, lighting up(A) the South Pacific – the ten technologists in our special report has (B) engineered (C) exciting careers (D) that melt (E) their passions with their professions.

Resolução:

O sujeito "10 technologists" está na terceira pessoa do plural, o que leva o verbo auxiliar a ser grafado como HAVE e não HAS.

Alternativa B

▶ Questão 17

Did you know that your car probably has more software running in it than the latest military fighter jets? Or that it has fifty or more embedded(A) microprocessors that control everything from(B) meeting governmental emission-control standards for(C) automatically increasing(D) the volume of your radio as(E) you drive faster?

Resolução:

As preposições correspondentes a de/a em inglês são FROM/TO.

Alternativa C

▶ Questão 18

People pursue technology for a(A) living because they are passionate about(B) making things, making things better, and making a difference in the world. Today's engineers need the knowledge to tackle classics(C) engineering problems, but(D) also the sensitivity to understand the social impact of technology on (E) people and the environment.

Resolução:

Adjetivos em inglês não variam em número, portanto CLASSIC não leva S.

Alternativa C

▶ Questão 19

Although technology has benefit(A) agriculture in a number of ways, there are some things that growers still do the old-fashioned(B) way. Among them is(C) putting their hands and other measuring devices in the dirt and judging, based on (D) how moist the soil is, whether their crops need water and how much(E) should be added.

Resolução:

O verbo principal BENEFIT deve vir no particípio passado, isto é, BENEFITTED, pois o tempo verbal é o present perfect.

Alternativa A

▶ Questão 20

Almost invariably (A), a new baby's photo album begins with a grainy black-and-white picture taken (B) months before birth – a prenatal ultrasound image which(C) is often detailed enough to inspire comments about the child's resemblance to (D) very(E) members of the family.

Resolução:

VERY, neste caso, não pode ser utilizado.

Alternativa E

▶ Questão 21

Leia as passagens seguintes e responda às questões que as seguem.

Modern buildings incorporate exciting forms with glittering façades and compelling interior spaces. Surveying for these projects requires sophisticated computation, aggressive quality control and close interaction with construction teams.

According to the passage, which of the following sentences correctly completes the idea: "That's why..."

- A) today's architecture presents new challenges for surveying engineers.
- B) modern buildings demand intriguing shapes.
- C) construction teams devote so much survey to façades aesthetic.
- D) complex architecture doesn't cause harm to the environment.
- E) quality control teams behave aggressively against construction teams.

Resolução:

A passagem dá detalhes sobre os desafios da construção civil atual, o que nos leva à opção A.

Alternativa A

▶ Questão 22

Tick the alternative that corresponds to "glittering", still keeping the same meaning of the sentence.

- A) glossing
- B) gliding
- C) gladding
- D) gluing
- E) gloating

Resolução:

Questão simples de vocabulário (sinonímia).

Alternativa A

▶ Questão 23

Picture yourself on a tranquil tropical beach. The late afternoon sun warms your face, chest and legs. Squeaky clean sand sifts through your salt-flavored fingers. Your mind thinks little further than the splashing of waves on the shoreline and the light flickering off shoals of little fish whizzing around in the crystal clear shallows. That's the scenario on many Pacific islands, where the sands, in an inevitable process, are always shifting, therefore.

Which of the following sentences correctly completes the idea of the passage?

- A) environmentalists should find suitable means of measuring and monitoring shoreline sand movement in the region as a solution to avoid the process.
- B) it's useless that the administrators of the islands plan their infrastructure.
- C) visitors should not throw garbage along the shoreline.
- D) the waves and winds bring different specimens of fish to the shallows.
- E) tourists should enjoy as most as possible: it might not be there next week.

Resolução:

A questão solicita uma conclusão para uma informação anterior, melhor completada pela opção E.

Alternativa E

▶ Questão 24

According to the passage, it can be inferred that the sand shifting process mentioned in the text is...

- A) warm.
- B) natural.
- C) limited.
- D) paradisiacal.
- E) moving.

Resolução:

O contexto deixa claro que se trata de um processo natural.

Alternativa B

▶ Questão 25

The phrase "Your mind thinks little further than the splashing of waves on the shoreline" means that...

- A) the splashing of the waves disturbs your thoughts, which can't go further.
- B) you mind is relaxed only if you look at the splashing of waves.
- C) you are not worried about the waves because they splash far from you.
- D) the splashing of the waves helps build the perfect scenario for relaxation.
- E) the waves splash far from the shoreline.

Resolução:

A opção D é a única que expressa a ideia da frase do enunciado, embora com outras palavras.

Alternativa D

▶ Questão 26

Built in the mid-1960s, the Riverside Drive Parking Deck in Elgin, Illinois, is quite large. Approximately 1.000-ft (300-m) long by 60-ft (18-m) wide – and nearly all of it over the Fox River – the deck is built on hundreds of 'piles', large concrete cylinders pushed down into the muddy river bottom. Pre-cast elements in the piles used high-tensile steel wire for reinforcement, and that steel is now rusting. A trai-sized piece of the deck has even fallen into the river causing concern to local authorities.

About the Riverside Drive Parking Deck, what can NOT be concluded?

- A) The concrete cylinders used in its construction were made stronger by adding metal to their bodies.
- B) The deck should be analyzed for further renewal.
- C) Steel has been used in order to prevent the possibility of rusting.
- D) Its structure contains steel.
- E) It needs repair.

Resolução:

De acordo com o texto, o aço está enferrujando e, obviamente, não poderia ser usado para evitar a ferrugem.

Alternativa C

▶ Questão 27

Zürich is the engine of the Swiss economy. Despite having all the conveniences and daily activities of a metropolis, Zürich has been able to preserve the charm of a small town. Yet every day, more than 300.000 commuters, visitors, tourists and business travelers come to this 'small town' through Zürich Central Train Station – and that number has been rising steadily. To meet the increasing demand, Swiss Federal Railways (SBB) together with the Canton of Zürich is expanding the station.

According to the passage...

- A) engineers from Zürich are responsible for the Swiss economy.
- B) Zürich is a charming small town.
- C) it is convenient to visit the metropolitan Zürich during the day.
- D) Zürich is a busy city. However features of a small town still persist.
- E) Zürich's Central Station is comfortable enough to receive more than 300.000 passengers.

Resolução:

A opção correta é a letra D, que trata da ideia central do texto.

Alternativa D

▶ Questão 28

Glaciers at the equator. The legendary source of the River Nile. Mysterious snow-capped peaks shrouded in an impenetrable cloud. These may sound like the stuff of myths – but in this case these descriptions aptly depict Uganda's Rwenzori Mountains, known for more than 2,000 years as the Mountains of the Moon. Located at Uganda's western border with the Democratic Republic of Congo, the Rwenzori Mountains rise as much as 5.109 m (16.763 ft) above gorges at equatorial sea-level to create amazingly diverse environment that includes tropical rain forests, marshes and lakes, grasslands, glaciers and snowfields. The flora and fauna that flourish there are as unique as the region itself. On gentler slopes, rare mountain gorillas may inhabit bamboo forests, while giant tree heathers up to 10 m (33 ft) tall sway on open ridge tops. It's no wonder much of the region is now designated World Heritage Site – yet only the lucky visitors will actually see the 100 km (62 mi) of mountain peaks, as a cloak of thick fog envelopes the Rwenzori year-round. It was this fog cloud that kept the legendary peaks from being documented until the late 1800s by non-African explorers – and the summit wasn't reached until year later.

The region described in the passage...

- A) was inherited by Uganda from Congo.
- B) is impenetrable.
- C) is characterized by lush environment.
- D) makes its visitors lucky.
- E) is a mythological legend known as The Mountains of the Moon.

Resolução:

Nesta questão de interpretação e vocabulário, a região retratada no texto apresenta uma paisagem exuberante, em acordo com a opção C.

Alternativa C

▶ Questão 29

According to the passage, Rwenzori's summits...

- A) are inhabited by gorillas.
- B) haven't been reached yet.
- C) are unique because of the tropical rain forest, marshes and lakes grasslands, glaciers and snowfields.
- D) can be sighted by all tourists.
- E) are hidden by mist most of the time.

Resolução:

A resposta correta é definida pelo sinônimo de FOG, que na opção E figura como MIST.

Alternativa E

▶ Questão 30

About the Rwenzori Mountains, it is correct to say that...

- A) they were first exploited 2,000 years ago.
- B) they sway on open ridge tops.
- C) the plants that grow there are commonly found anywhere in the world.
- D) they are located at an Earth hot zone.
- E) the vegetation is basically formed by bamboo.

Resolução:

A resposta é encontrada logo na primeira sentença do texto.

Alternativa D

▶ Questão 31

In countless panel discussions on the future of technology, I'm not sure I ever got anything right. As I look back on technological progress, I experience first retrospective surprise, then surprise that I'm surprised, because it all crept up on me when I wasn't looking. How can something like Google feel so inevitable and yet be impossible to predict? I'm filled with wonder at all that we engineers have accomplished, and I take great communal pride in how we've changed the world in so many ways. Decades ago I never dreamed we would have satellite navigation, computers in our pockets, the internet, cellphones, neither robots that would explore Mars. How did all this happen, and what are we doing for our next trick? The software pioneer Alan Kay has said that the best way to predict the future is to invent it, and that's what we've been busy doing.

The word 'it', underlined in the sentence "As I look back on technological progress, I experience first retrospective surprise, then surprise that I'm surprised, because it all crept up on me when I wasn't looking" refers to which idea mentioned in the text?

- A) retrospective surprise.
- B) technological progress.
- C) panel discussions.
- D) future of technology.
- E) experience.

Resolução:

Questão de referência pronominal.

Alternativa B

▶ Questão 32

The sentence "How can something like Google feel so inevitable and yet be impossible to predict?" means that...

- A) Google was inspired in impossible predictions.
- B) Google has risen out of a prophecy.
- C) it is impossible to imagine today's world without Google.
- D) it's amazing that Google has not been foretold.
- E) people like Google but think it's impossible to improve it.

Resolução:

Esta questão apresenta ambiguidade nas opções C e D. Apesar de não contemplar totalmente a sentença dada, a opção C não pode ser considerada errada.

Alternativa C/D

▶ **Questão 33**

In the sentence “Decades ago I never dreamed we would have satellite navigation, computers in our pockets, the internet, cellphones, neither robots that would explore Mars” the word ‘neither’ can be changed for which of the following words, still keeping the same meaning and grammatical accuracy?

- A) when
- B) but
- C) or
- D) then
- E) so

Resolução:

A oração exige uma conjunção alternativa.

Alternativa C

▶ **Questão 34**

According to the passage, we can say that its author

- A) isn't good at making predictions.
- B) doesn't consent to technological advances.
- C) can't invent the future
- D) doesn't realize changes have taken place.
- E) rejects the present technological inventions.

Resolução:

Em várias ocasiões no texto, o autor se mostra incapaz de fazer previsões.

Alternativa A

▶ **Questão 35**

Billions of dollars spent on defeating improvised explosive devices (IED) are beginning to show what technology can and cannot do for the evolving struggle.

Two platoons of U.S. Army scouts are in a field deep in the notorious “Triangle of Death” south of Baghdad, a region of countless clashes between Sunni insurgents and Shia militias. The platoons are guided by a local man who's warned them of pressure-plate improvised explosive devices, designed to explode when stepped on. He has assured them that he knows where the IED's are, which means he is almost certainly a former Sunni insurgent.

The platoons come under harassing fire. It stops, but later the tension mounts again as they maneuver near an abandoned house known to shelter al-Qaeda fighters. A shot rings out; the scouts take cover. They don't realize it's just their local guide, with an itchy trigger finger, taking the potshot at the house. The lieutenant leading the patrol summons three riflemen to cover the abandoned house.

Then all hell breaks loose. One of the riflemen, a sergeant, steps on a pressure-plate IED. The blast badly injures him, the two other riflemen, and the lieutenant. A Navy explosives specialist along on the mission immediately springs into action, using classified gear to comb the area for more bombs. Until he gives the all clear, no one can move, not even to tend the bleeding men. Meanwhile, one of the frozen-in-space scouts notices another IED right next to him and gives a shout, provoking more combing in his area. Then a big area has to be cleared so that the medevac helicopter already on the way can land.

That incident, which took place on 7 November 2007, exhibits many of the hallmarks of the missions in Iraq and Afghanistan – a small patrol; a local man of dubious background; Navy specialists working with soldiers on dry land; and costly technologies pressed into service against cheap and crude weapons. And, most of all, death by IED.

What scene is narrated in this passage?

- A) A helicopter prepares to land on a dangerous area.
- B) Sunni insurgents struggle against Shia militias while U.S. Army platoons try to control the battle.
- C) U.S. Army platoons face trouble on a mined field.
- D) A Shia guide leads two U.S. platoons across a dangerous field but later he proves to be a betrayer, leading the platoons to a mined field.
- E) Three U.S. riflemen break into an abandoned house in the “Triangle of Death”

Resolução:

A opção C, apesar de curta, trata, de forma mais abrangente, do tópico do texto.

Alternativa C

▶ Questão 36

The scene narrated in this passage shows that...

- A) technology specialists are useless to struggle against improvised explosives devices.
- B) improvised explosive devices are easily defeated since millions of dollars are spent on weapon technologies.
- C) only when serious weapon technologies investments are made, IED will cause no more harm.
- D) refined technologies cannot replace IED.
- E) crude weapons may impose difficulties even to the most expensive technologies.

Resolução:

Questão de interpretação de texto, na qual a opção mais precisa é a de letra E.

Alternativa E

▶ Questão 37

The guide of the U.S. platoon...

- A) led the militaries straight to an IED compound.
- B) is a Navy explosive specialist with an itchy trigger finger.
- C) shot against the U.S. platoons, injuring four militaries.
- D) may have set some of the IED along the field some time before
- E) stepped on an IED, causing all the turmoil.

Resolução:

As opções A e D se aproximam do que diz o texto. Entretanto, a opção A sugere maior precisão em relação ao perfil do homem que guia a tropa.

Alternativa A

▶ Questão 38

According to the text, it is correct to say that improvised explosives devices...

- A) are cheap harmless weapons.
- B) use elaborated technology, reason why they cause so many deaths.
- C) are inexpensive unrefined explosive devices.
- D) injure but never kill.
- E) are gears that comb fields for bombs.

Resolução:

A própria sigla IED (Improvised Explosive Device) indica a simplicidade do artefato.

Alternativa C

▶ Questão 39

The sentence "Then all hell breaks loose." means that...

- A) the U.S. platoons freed Sunni insurgents from a dangerous circumstance.
- B) the U.S. militaries tried to escape from the enemy's harassing fire.
- C) the U.S. militaries are neither afraid of Sunni insurgents nor Shia militias.
- D) the U.S. combatants fought like devils freed from hell.
- E) the U.S. soldiers were caught in a tremendously serious situation.

Resolução:

A frase em questão sugere uma situação comparada a um “inferno”, indicando a seriedade do problema, o que está explícito na opção E.

Alternativa E

▶ Questão 40

The word underlined in the sentence “That incident, which took place on 7 November 2007, exhibits many of the hallmarks of the missions in Iraq and Afghanistan ...” can be replaced by which of the following expressions, still keeping the same meaning?

Resolução:

Apesar de vários dicionários registrarem significados semelhantes para as palavras HALLMARK, TRADEMARK e até mesmo BRAND, o contexto dado fica melhor com a opção B

Alternativa B

▶ Questão 41

Leia os parágrafos seguintes e complete-os nos espaços apropriados do caderno de soluções, com idéias que os tornem coesos e coerentes. Cada parágrafo deverá ser redigido em INGLÊS e conter entre 15 e 20 palavras.

Allen Telescope Array starts search for E.T.

Radio telescope array will seek out new life and new civilizations. It’s smaller than originally hoped for, but with 42 radio antennas, the Allen Telescope Array, or ATA, is the most advanced structure ever built to look for signs of extraterrestrial intelligence. Following technical delays and cost overruns that left it well short of its planned size, the array....

Resolução:

... is supposed to start operating soon. Last year was the first time the ATA was put to work.

▶ Questão 42

We are doing final calibration, testing, and repairs and expect to begin with the first SETI (Search for Extraterrestrial Intelligence) program by about September 1’, promises Leo Blitz, director of ATA and the Radio Astronomy Laboratory at the University of California. Thanks in part to gift of US\$ 25 million from Microsoft Corp. cofounder Paul Allen, the SETI Institute will have its own powerful observatory to search the skies, rather than...

Resolução:

...counting on other similar projects from other countries, which may have similar programs going on.

▶ Questão 43

The ATA, nestled in a remote volcanic valley about 460 kilometers northeast of San Francisco, will be the first privately funded major radio telescope observatory. Due to the original array plan, which called for 350 dishes, Blitz claims...

Resolução:

...“We are glad to have accomplished an observatory like this, which will contribute to the search for extraterrestrial intelligence.

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