

1-6: For these questions, choose the best word or expression to fill the space.

- As oceans grow warmer, they are creating conditions that allow hurricanes to undergo rapid ----, which manifests itself as an increase in hurricane's wind speed by 35 mph or more within 24 hours.  
A) abortion B) consultation  
C) delegation D) intensification  
E) frustration
- In Australia, conservationists are teaching crocodiles to avoid eating toxic cane toads using a method called 'conditioned taste ----', which aims to keep freshwater crocodile population above the critical number.  
A) consultation B) defect  
C) endangerment D) framework  
E) aversion
- The vagus nerve is an important part of interoception – also called the communication between the body and the nervous system – that can have a/an ---- effect on how we are feeling, even influencing emotions such as anxiety and depression.  
A) reliable B) preventive  
C) obedient D) profound  
E) trivial
- The material that defines the Industrial Revolution is ---- steel, but it was not until a particular process was developed that steel was able to be mass-produced.  
A) undoubtedly B) bizarrely  
C) desperately D) ironically  
E) institutionally

- Flu shots work by priming the immune system to make antibodies that are ready to attack the selected flu strains if a vaccinated person is ----.  
A) delivered B) alleviated  
C) exposed D) released  
E) discharged
- The Luddite movement came into prominence during the difficult economic period of Napoleonic Wars, when wage bills were cut by employers, workers were sacked and machines were optimised to ---- costs.  
A) jot down B) pull over  
C) get on D) drive down  
E) rely on

7-16: For these questions, choose the best word(s) or expression(s) to fill the space(s).

- Since it was launched in December 2021, the James Webb Space Telescope ---- groundbreaking insights, which include discovering the earliest and most distant known galaxies, which ---- just 300 million years after the Big Bang.  
A) was providing / had existed  
B) has provided / existed  
C) provided / has existed  
D) had provided / would exist  
E) is providing / exists
- Saturn's moon Enceladus appears ---- a greater range of complex organic molecules than previously thought, ---- the likelihood of chemical reactions that produce the building blocks of life.  
A) to have had / increased  
B) having / to increase  
C) to have / increasing  
D) having had / to have increased  
E) to be having / having increased

9. The idea that how we view a bad night's sleep ---- how tired we feel is an intriguing, and potentially empowering, consideration, and it means feeling more awake without having to sleep more ---- possible.
- A) can change / would have become  
B) would change / could have become  
C) must change / has to become  
D) had to change / must become  
E) could change / might become
10. Researchers have discovered enormous tube worms and other creatures thriving in cavities ---- the seafloor on the East Pacific Rise, an ocean ridge ---- the Galápagos Islands.
- A) below / over                      B) beneath / near  
C) into / on                          D) for / towards  
E) of / from
11. De-extinction ---- the sense of "creating a form of hybrid species that looks like the extinct one ---- replacing a limited number of key genes" is possible if there is available DNA from the extinct species.
- A) over / from                      B) on / on  
C) in / by                          D) beyond / for  
E) at / into
12. ---- scientists have long known that the distributions of animals and plants across the world may fluctuate with the climate, the climate crisis has made it more important than ever to understand these fluctuations.
- A) If                                      B) Whereas  
C) Since                                D) Though  
E) Only after
13. ---- data on population trends for tropical species is sparse, satellite and ground-based assessments are unanimous in showing a reduction in the extent of tropical habitats such as rainforests and savannas.
- A) Even if                              B) Now that  
C) When                                D) Before  
E) Until
14. Finland's "Everyman's Right" gives Finns and visitors alike the freedom to temporarily stay and camp out overnight anywhere – even in public parks and on private property, ---- you don't cause damage or disturb the landowner.
- A) unless                                B) so long as  
C) so that                                D) although  
E) because
15. Throughout the ages, even the simple act of telling the time has presented ---- a huge challenge to humans ---- we have tried to solve it with elaborate inventions.
- A) either / or                          B) so / as  
C) more / than                        D) such / that  
E) both / and
16. MicroRNAs fall under a broader umbrella of molecules called RNAs, which resemble DNA but contain only one "strand" of genetic material, ---- two twisted together.
- A) in view of                          B) according to  
C) with respect to                    D) on behalf of  
E) rather than

**17-21: For these questions, choose the best word or expression to fill the spaces in the passage.**

On July 3, 1908, Italian archaeologist Federico Halbherr, his student Luigi Pernier, and a team were excavating the site of a Minoan palace at Phaistos, in southern Crete, (17) ---- they came across an underground deposit among the ruins. Inside the deposit, Pernier could make out charred bones and ashes and (18) ---- them, half-buried, a golden brown clay disk. Pernier retrieved the disk and, holding it in his palm, saw that it was covered on both sides with a series of small images, which (19) ---- into the clay in a spiral formation. Today, more than a hundred years later, the meaning of the signs on this discovery, now called the Phaistos disk, is still unknown. There have been many ingenious attempts to decipher the spiraling inscription, not least (20) ---- the wealth of new information it could reveal about the ancient Minoan civilization. So far, however, its message has proved (21) ----.

17.

- |                |               |
|----------------|---------------|
| A) when        | B) the moment |
| C) while       | D) since      |
| E) even though |               |

19.

- |                      |                     |
|----------------------|---------------------|
| A) has been pressed  | B) is pressed       |
| C) had been pressed  | D) would be pressed |
| E) was being pressed |                     |

20.

- |               |                    |
|---------------|--------------------|
| A) apart from | B) such as         |
| C) because of | D) notwithstanding |
| E) despite    |                    |

18.

- |            |            |
|------------|------------|
| A) between | B) about   |
| C) amid    | D) towards |
| E) among   |            |

21.

- |               |            |
|---------------|------------|
| A) productive | B) adamant |
| C) capable    | D) elusive |
| E) tedious    |            |

**22-26: For these questions, choose the best word or expression to fill the spaces in the passage.**

The artificial intelligence boom has already changed how we understand technology and the world. **(22)** ----, developing and updating AI programs requires a lot of computing power. This relies heavily on servers in data centres, **(23)** ---- a great cost in terms of carbon emissions and resource use. One particularly energy intensive task is "training", where generative AI systems are exposed to vast amounts of data **(24)** ---- they improve at what they do. The development of AI-based systems **(25)** ---- for a 48% increase in Google's greenhouse gas emissions over five years. This will make it harder for the tech giant to achieve its goal of reaching net zero by 2030. Some in the industry **(26)** ---- the extra energy expenditure from AI by pointing to benefits the technology could have for environmental sustainability and climate action. Improving the efficiency of solar and wind power *through* predicting weather patterns, "smart" agriculture and more efficient, electric autonomous vehicles are *among* the purported benefits of AI *for* the Earth.

22.

- |                    |              |
|--------------------|--------------|
| A) Otherwise       | B) Hence     |
| C) However         | D) Meanwhile |
| E) On the contrary |              |

23.

- |           |       |
|-----------|-------|
| A) in     | B) at |
| C) over   | D) of |
| E) around |       |

24.

- |              |               |
|--------------|---------------|
| A) because   | B) although   |
| C) even when | D) so long as |
| E) so that   |               |

25.

- |                    |                   |
|--------------------|-------------------|
| A) was blamed      | B) is blamed      |
| C) had been blamed | D) will be blamed |
| E) has been blamed |                   |

26.

- |              |              |
|--------------|--------------|
| A) allege    | B) cultivate |
| C) formulate | D) justify   |
| E) insert    |              |

**27-36: For these questions, choose the best option to complete the given sentence.**

**27. ---, a whole hurricane is simply far too big and too powerful for human technology to have any impact.**

- A) While we can seed individual clouds to encourage rain in arid regions of the world
- B) Even though we can easily control the size and strength of a hurricane
- C) As technology allows us to prevent all natural disasters before they happen
- D) Although human technology has already proven successful in stopping hurricanes
- E) Since hurricanes are small enough to be easily managed with modern tools

**28. ---; however, research shows that putting pen to paper offers cognitive benefits that digital tools can't replicate.**

- A) Writing by hand has been proven to slow down learning compared to using digital devices
- B) Handwriting has no role in improving cognitive abilities whatsoever
- C) Some schools around the world have even stopped teaching handwriting altogether
- D) Digital tools are universally recognized as offering more cognitive benefits than handwriting
- E) Writing by hand has been proven to slow down learning compared to using digital devices

**29. As today's young people are competing with each other in order to meet societal pressures to succeed, ---.**

- A) they tend to focus less on achieving their personal goals and more on enjoying life
- B) they are learning to embrace failure as an essential part of growth
- C) they often prioritize relaxation and stress management over academic or career success
- C) they are becoming less concerned with societal expectations and more focused on individuality
- E) they feel that perfectionism is necessary in order to feel safe, socially connected and of worth

**30. It is acknowledged that the mental health benefits of physical activity are just as strong as the physical health benefits; ---.**

- A) moreover, it is important to recognize that trauma survivors often do not have equal access to physical activity engagement
- B) in fact, countless studies have shown the value of exercise as medicine to treat depression, anxiety, and more
- C) thus, it is necessary to step away from "one-size-fits-all" exercise interventions and instead move toward thoughtful, trauma-informed strategies
- D) even so, support grows for the use of physical activity as a tool for healing among trauma survivors with post-traumatic stress disorder
- E) meanwhile, people who engage in 30 minutes of exercise five days a week have seen benefits similar to those of antidepressant medication

**31. Although China has been playing catch-up in the tech race, particularly in the production of semiconductors for years, ---.**

- A) the gap between the USA and China has become negligible, with China now leading in most tech sectors
- B) it has completely surpassed leading countries, including the likes of the United States in semiconductor production
- C) the South-east Asian giant has focused solely on software development rather than hardware production
- D) the United States has maintained its dominance in this field by limiting China's access to the most advanced chip-making technology
- E) the struggling economy of the country has not made any significant progress in the technology sector

**32. All around the world's volcanoes, scientists intend to advance the understanding of how magma, or molten rock, behaves underground ----.**

- A) because that knowledge could help scientists forecast the risk of eruptions and push geothermal energy to new frontiers
- B) whereas pressure and temperature sensors will be placed into the molten rock to be able to monitor its behaviour
- C) even though an estimated 800 million people live within 100km of hazardous active volcanoes around the world
- D) thus Iceland has 33 active volcano systems, and sits on the rift where the Eurasian and North American tectonic plates pull apart
- E) and yet a wave of eight eruptions in the Reykanes peninsula has damaged infrastructure and upended lives in the community of Grindavik

**33. While many of us experience nurturing, heart-warming upbringings, ----.**

- A) adult children may feel used or manipulated in family dynamics, leading to feelings of resentment
- B) we all know at least one person in our lives who has grown up in a fractured household
- C) disagreements over personal decisions, such as marriage or lifestyle choices, can lead to estrangement
- D) adult children who have endured a lifetime of strain may feel compelled to take a step back
- E) we are aware of the fact that our families were exceptionally good and supportive

**34. ----, coffee's potential cardioprotective benefits make it an exciting topic of research.**

- A) Although some people prefer to consume coffee in the morning to increase alertness
- B) As consuming coffee and caffeine in moderation on a regular basis could help prevent type 2 diabetes
- C) Considering that around 1 in 7 deaths worldwide are caused by coronary heart disease
- D) While coffee and tea are complex beverages that contain hundreds of bioactive compounds
- E) Since compounds such as flavonoids, alkaloids, and polyphenols, are thought to have antioxidant and anti-inflammatory effects

**35. In the vastness of ocean, some animals protect themselves by being toxic or venomous, or simply tasting awful, ----.**

- A) yet the majority of species in the open ocean do not appear to be evolving to increase in size
- B) and most animals must also find new ways to protect themselves
- C) but if you can't run, you can't fight, and you are tasty, all that is left to do is hide
- D) so it is perhaps not surprising that certain animals have evolved to eat ever-smaller things
- E) for the difficulties of finding food have led to some novel feeding strategies

**36. Women with existing autoimmune disorders, those aged over 40 and women with a larger body mass index are known to be at greater risk of pre-eclampsia ----.**

- A) though there are still many mysteries about why certain women develop pre-eclampsia, often without warning, and why others do not
- B) because they are unable to adapt as well to the physical toll that pregnancy places on a woman's body
- C) while doctors still rely heavily on clinical risk factors such as age, ethnicity and medical history to assess who might develop pre-eclampsia
- D) despite the fact that scientists may soon be able to shed more light on who is at risk and why
- E) whereas there is no easy way of studying the changes taking place in a pregnant woman's uterus

**37-42: For these questions, choose the most accurate Turkish translation of the sentences in English, and the most accurate English translation of the sentences in Turkish.**

**37. Across the natural world, scientists and researchers are increasingly turning to artificial intelligence for help understanding the interior lives of animals, as well as the habitats that sustain them – oceans, forests, even commercial farms.**

- A) Doğal dünyanın dört bir yanında bilim insanları ve araştırmacıların yaptığı şey, hayvanların iç yaşamlarının yanı sıra okyanuslar, ormanlar ve hatta ticari çiftlikler gibi onları ayakta tutan habitatları anlamaya yardımcı olması için giderek daha fazla yapay zekaya başvurmaktadır.
- B) Hayvanların iç yaşamlarının yanı sıra okyanuslar, ormanlar ve hatta ticari çiftlikler gibi onları ayakta tutan habitatları anlamaya çalışan doğal dünyanın dört bir yanındaki bilim insanları ve araştırmacılar, giderek daha fazla yapay zekaya başvuruyor.
- C) Doğal dünyanın dört bir yanında bilim insanları ve araştırmacılar, hayvanların iç yaşamlarının yanı sıra okyanuslar, ormanlar ve hatta ticari çiftlikler gibi onları ayakta tutan habitatları anlamaya yardımcı olması için giderek daha fazla yapay zekaya başvuruyor.
- D) Doğal dünyanın dört bir yanında bilim insanları ve araştırmacılar, hayvanların iç yaşamlarının yanı sıra okyanuslar, ormanlar ve hatta ticari çiftlikler gibi onları ayakta tutan habitatları anlamayı çok istedikleri için giderek daha fazla yapay zekaya başvuruyor.
- E) Doğal dünyanın dört bir yanında bilim insanları ve araştırmacılar, hayvanların iç yaşamlarından ziyade okyanuslar, ormanlar ve hatta ticari çiftlikler gibi onları ayakta tutan habitatları anlamaya yardımcı olması için giderek daha fazla yapay zekaya başvuruyor.

**38. Retailers donate products that are typically packaged, palatable and safe for consumption, yet unsuitable for sale due to quality concerns, such as minor blemishes.**

- A) Perakendecilerin bağışladıkları şeyler, genellikle paketlenmiş, lezzetli ve tüketim için güvenli olan ancak küçük lekeler gibi kalite endişeleri nedeniyle satışa uygun olmayan ürünlerdir.
- B) Genellikle paketlenmiş, lezzetli ve tüketim için güvenli olan ancak küçük lekeler gibi kalite endişeleri nedeniyle satışa uygun olmayan ürünler, perakendeciler tarafından bağışlanmaktadır.
- C) Perakendeciler, genellikle paketlenmiş, lezzetli ve tüketim için güvenli olan ancak küçük lekeler gibi kalite endişeleri nedeniyle satışa sunamayacakları ürünleri bağışlamaktadır.
- D) Perakendeciler, genellikle paketlenmiş, lezzetli ve tüketim için güvenli olan ürünleri, küçük lekeler gibi kalite endişeleri nedeniyle satışa uygun olmaması gibi durumlar dışında bağışlamazlar.
- E) Perakendeciler, genellikle paketlenmiş, lezzetli ve tüketim için güvenli olan ancak küçük lekeler gibi kalite endişeleri nedeniyle satışa uygun olmayan ürünleri bağışlamaktadır.

**39. Inflammation plays a potential role in the etiology of depression, and anti-inflammatory intervention may represent a novel way of developing more personalized treatment regimens for some patients.**

- A) İltihaplanma, depresyon etiyolojisinde potansiyel bir rol oynamaktadır ve iltihap önleyici müdahale bazı hastalar için daha kişiselleştirilmiş tedavi yöntemleri geliştirilmenin yeni bir yolunu temsil edebilir.
- B) İltihaplanma, depresyon etiyolojisinde potansiyel bir rol oynadığı için iltihap önleyici müdahale bazı hastalar için daha kişiselleştirilmiş tedavi yöntemleri geliştirilmenin yeni bir yolunu temsil edebilir.
- C) İltihap önleyici müdahalenin muhtemelen bazı hastalar için daha kişiselleştirilmiş tedavi yöntemleri geliştirilmenin bir yolu olmasının nedeni, iltihaplanmanın depresyon etiyolojisinde oynadığı potansiyel rol olabilir.
- D) İltihaplanma, potansiyel olarak depresyona neden olabilmektedir ve iltihap önleyici müdahale sayesinde bazı hastalar için daha kişiselleştirilmiş tedavi yöntemleri geliştirilmenin yeni bir yolu bulunmuş olabilir.
- E) İltihaplanmanın depresyon etiyolojisinde potansiyel bir rol oynadığı bilinmektedir ve iltihap önleyici müdahale bazı hastalar için daha kişiselleştirilmiş tedavi yöntemleri geliştirilmenin yeni bir yolunu temsil edebilir.



40. Diğer insanların içsel durumlarını algılama yeteneğimiz büyük olasılıkla hayatta kalmayı destekleyen güçlü sosyal bağların kurulmasına yardımcı olduğu için evrimleşmiştir.
- A) We have most likely evolved to be able to perceive other people's inner states due to its potential to forge the kinds of strong social ties that promote survival.
- B) Our ability to perceive other people's inner states most likely evolved because it helps to forge the kinds of strong social ties that promote survival.
- C) As perceiving other people's inner states most probably helps to forge the kinds of strong social ties that promote survival, we have developed that ability.
- D) Perceiving other people's inner states most helps to forge the kinds of strong social ties that promote survival, which made us develop that ability.
- E) Our ability to perceive the inner states of others most likely evolved to help build strong social bonds, which are essential for survival.
41. Sıcak hava dalgaları sadece toprak yabancılarını ısıtmakla kalmıyor, aynı zamanda yüksek sıcaklıklar böceklerin koku alma duyusunu da büyük ölçüde azaltıyor gibi görünüyor, ki bu da kolonilerin hayatta kalmasını tehdit edebilir.
- A) By making bumblebees hot, heatwaves and the ensuing high temperatures seem to considerably reduce their sense of smell, and this might be a threat to the survival of their colonies.
- B) Heat waves not only cause bumblebees to overheat, but the extreme temperatures also appear to significantly impair their sense of smell, potentially endangering the survival of their colonies.
- C) Heat waves not only raise the temperature for bumblebees, but the intense heat also greatly diminishes their sense of smell, which could jeopardize the survival of their colonies.
- D) Heat waves do not only make bumblebees hot, but the high temperatures also seem to drastically reduce the insects' sense of smell, which might threaten the survival of colonies.
- E) Heat waves overheat bumblebees; what's more, the high temperatures also significantly weaken their sense of smell, potentially threatening the survival of their colonies.

42. Genellikle "kıyamet günü buzulu" olarak adlandırılan Antarktika'daki devasa Thwaites buzulu, İngiltere ya da Florida ile karşılaştırılabilir büyüklüktedir ve sadece onun çökmesi bile deniz seviyesini 65 santimetre yükseltebilir.
- A) Often called "the doomsday glacier," the vast Thwaites glacier in Antarctica is comparable in size to Britain or Florida and its collapse alone might raise sea levels by 65 centimetres.
- B) The vast Thwaites glacier in Antarctica, which is comparable in size to Britain or Florida, is often called "the doomsday glacier" because its collapse alone might raise sea levels by 65 centimetres.
- C) The enormous Thwaites Glacier in Antarctica, roughly the size of Britain or Florida, is frequently referred to as the "doomsday glacier" due to the possibility that its collapse could raise sea levels by 65 centimetres.
- D) The massive Thwaites Glacier in Antarctica, often referred to as the "doomsday glacier," is comparable in size to Britain or Florida, and its collapse could raise sea levels by 65 centimetres.
- E) The enormous Thwaites Glacier in Antarctica, known as the "doomsday glacier," is similar in size to Britain and Florida combined, and its collapse alone could raise sea levels by 65 centimeters.