

1 – 20. Sorularda boş bırakılan yerlere uygun düşen sözcük ya da ifadeyi bulunuz.

1. Certain genetically modified microbes are useful and can be used in bio-mining---- their ability to extract heavy metals from their environment.

A) as well as                      B) in spite of  
C) due to                         D) regardless of  
E) contrary to

2. The Guinea Pig, also known as a Cavy, is a small species of rodent that ---- the Central Andes Mountains in South America

A) decomposes                 B) manipulates  
C) involves                      D) inhabits  
E) captures

3. ---- it is popular in jewellery making, platinum is also used in catalytic converters and other industrial applications.

A) While                         B) Because  
C) As                              D) If  
E) When

4. Our biological clocks can usually reset themselves and go back to normal ---- they might get temporarily distracted by changes in light or temperature.

A) so that                         B) unless  
C) since                          D) as if  
E) although

5. Iceland lies in the path of the North Atlantic Current, which makes its climate ---- milder than expected.

A) abruptly                      B) relatively  
C) enthusiastically             D) gradually  
E) urgently

6. Earth's atmosphere is 78 percent nitrogen, 21 percent oxygen, and one percent other gases; this atmosphere ---- nourishes life on Earth, ---- protects it, making it inhabitable for humans.

A) not only / but also         B) whether / or  
C) neither / nor                D) more / than  
E) either / or

7. For thousands of years, people ---- with ecosystems, and many native tribes of North America ---- a lifestyle based on the native habitat of their ecosystem in the past.

A) had interacted / have developed  
B) interact / develop  
C) have interacted / developed  
D) are interacting / had developed  
E) were interacting / are developing

8. Much of the water we ---- for routine activities is supplied from rivers, lakes, and other surface water sources; however, they are becoming more and more polluted every day.

A) stem from                      B) give up  
C) put out                         D) break off  
E) count on

9. Reproduction in amphibians has ---- similarities with the fish ---- with reptiles or mammals and most amphibians reproduce in fresh water.

- A) rather / than
- B) more / than
- C) as / as
- D) such / that
- E) so / as

10. The name *oxygen*---- by Antoine Lavoisier, who incorrectly ---- that oxygen was necessary to form all acids.

- A) had been created / has believed
- B) has been created / was believing
- C) created / was believed
- D) was created / believed
- E) was being created / had believed

11. Polyester is a synthetic fiber, which is derived ---- coal, air, water, and petroleum and polyester fibers are formed ---- a chemical reaction between an acid and alcohol.

- A) into / for
- B) from / through
- C) with / behind
- D) out / above
- E) at / from

12. Due to sufficient rainfall and proper availability of heat throughout the year in equatorial and tropical coastal regions, the most ---- forests are found in these regions.

- A) implicit
- B) indefinite
- C) diverse
- D) prosperous
- E) infertile

13. Venus is an Earth-like planet; ----, despite its geologic similarities with Earth, Venus has a surface unlike anything terrestrial geologists have ever seen.

- A) however
- B) otherwise
- C) also
- D) in addition
- E) therefore

14. Scientists know more about the woolly mammoth than any other prehistoric animal---- there are frozen carcasses with skeletons, stomach contents, tusks and liquid blood left intact.

- A) once
- B) until
- C) since
- D) as soon as
- E) although

15. The government ---- a study of services offered at the state and federal level to see if there is an excess of services that ----.

- A) could conduct / should eliminate
- B) had conducted / will be eliminated
- C) was conducting / have eliminated
- D) is conducting / could be eliminated
- E) should conduct / were eliminated

16. Research has shown that bright yellow and bright blue are the most visible colours; ----, they are regarded as the safest ones to be used in cars as body paint.

- A) in contrast
- B) otherwise
- C) as a result
- D) however
- E) in other words

17. The results of a recent research show that the ---- over sea level in Mekong Delta in Vietnam averages just 0.8 meter, which could lead to severe flooding within a short time.

- A) trend                      B) component  
C) limitation                D) pandemic  
E) elevation

18. ---- the crystalline form of a chemical substance is stable and fixed, the organized form of a living organism is unstable and subject to change.

- A) Even when                B) When  
C) Because                  D) Whereas  
E) Just as

19. It is known that the term 'google' ---- a creative spelling of 'googol,' a number equal to 10 to the 100th power, which ---- in the 1930s.

- A) has been / had coined  
B) will be / was coining  
C) had been / has been coined  
D) was / was coined  
E) will have been / is coined

20. In less than ten minutes an idling car will produce double the pollution of a car ---- is turned off and then restarted.

- A) that                              B) when  
C) whose                         D) who  
E) where

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21 – 25. Sorularda boş bırakılan yerlere uygun düşen sözcük ya da ifadeyi bulunuz.

In the early days of the --21-- of Australia, some colonists unwisely introduced the European rabbit, which had no natural enemies there, --22-- it multiplied incredibly quickly, and caused devastation to local species of plants and animals. Scientists discovered that this rabbit was susceptible to a fatal virus disease. Trying to create local epidemics of this disease, they --23-- there was a type of mosquito which acted as the carrier of this disease and passed it on to the rabbits. --24-- the rest of the world was trying to eliminate mosquitoes in general, Australia was encouraging especially this one. It effectively spread the disease all --25-- the continent and drastically diminished the rabbit population.

21.

- A) inference
- B) settlement
- C) supplement
- D) influence
- E) invention

22.

- |        |            |
|--------|------------|
| A) but | B) because |
| C) so  | D) also    |
| E) for |            |

23.

- |                |               |
|----------------|---------------|
| A) took in     | B) passed out |
| C) came across | D) cut off    |
| E) found out   |               |

24.

- |                |                |
|----------------|----------------|
| A) By the time | B) Just as     |
| C) As soon as  | D) Even though |
| E) Since       |                |

25.

- |            |         |
|------------|---------|
| A) over    | B) of   |
| C) above   | D) down |
| E) beneath |         |

26 – 30. sorularda boş bırakılan yerlere uygun düşen sözcük ya da ifadeyi bulunuz.

In developed regions like Europe and the US, --26-- the aging population presents a real challenge, the medical industry trend is shifting to more technology-based patient care and homecare. Lately, in response to rising costs, medical wearable and connected devices --27--popular in providing preventive and predictive diagnosis and care. Therefore, it has become more essential --28-- device makers to choose the right energy storage solutions for their devices. Today, consumer demand regarding the performance and overall design of a device has --29--: the battery, as a component, is no longer an exception to meet these expectations. The battery industry --30-- to the changing markets a few months ago, and consequently, the concept of flexible batteries or thin batteries has been introduced and has become a scientific breakthrough.

26.

- A) whom                      B) when  
C) where                      D) whose  
E) which

27.

- A) have become              B) became  
C) had become              D) becomes  
E) will become

28.

- A) from                      B) for  
C) at                      D) with  
E) of

29.

- A) put off                      B) let down  
C) taken under              D) gotten out  
E) grown up

30.

- A) had responded  
B) used to respond  
C) could respond  
D) had to respond  
E) might respond

31. – 41. Sorularda verilen cümleyi tamamlayabilecek seçeneği bulunuz.

31. Although Earth can be studied without the aid of spacecraft;----.

- A) we could not know anything about the Earth before that
- B) it was not until the twentieth century that we had maps of the entire planet
- C) spacecraft technology has a great role in studying Earth
- D) little information can be obtained via spacecraft that is truly valuable
- E) Earth, the blue dot that we call home, is one of the closest planets to Sun

32. ----, their queen is a 4 inch long giant that lies in the royal chamber motionless since its legs are too small to move its enormous body.

- A) In addition to being very large and heavy
- B) Since termites are one of the most social insects
- C) Because the termite social network is very limited
- D) In spite of being the most important member of the termite society
- E) While termites do not exceed 3-4 mm in size

33. It is estimated that about 25 percent of the variation in human life span is determined by genetics, ----.

- A) yet, human beings should take better care of their genes
- B) because genes play an important role in determining the life span
- C) but which genes, and how they contribute to longevity, are not well understood
- D) since studies haven't proved how reliable this information is
- E) and lifestyle is not as important as genetics regarding life span

34. ----, drones can identify people and track them anywhere, then they can provide useful data about their behaviors.

- A) When combined with machine learning software
- B) As they have lost their popularity in monitoring people
- C) Even though their prices have gone down dramatically
- D) In order to avoid harassing people and their privacy
- E) While being used by many different people from different age groups

35. The zygote can be seen as the ultimate stem cell----.

- A) also it has proved fatal to change the genetic structure of it
- B) because the next stage that a zygote develops cannot be utilized as easily
- C) but it is very important to study the zygote before cloning
- D) since cells derived from it will become not only the embryo but the placenta as well
- E) unless you carefully analyze and carry out enough experiment on genes

36. It is very difficult for scientists to study deep sea animals, ----.

- A) and they can be studied easily by the scientists in laboratories
- B) even if it is not so easy to conduct research on them
- C) so there might be other remarkable features we don't yet know about
- D) though there is not enough data to specify the types of them
- E) although they are unable to live above water or outside

37. ----, it could be closed permanently by 2050 according to the recent evidence found.

- A) If the hole in the ozone layer over Antarctica continues to heal with such progress
- B) Even if the hole in the ozone layer might be closed
- C) Unless scientists take necessary measures as soon as possible
- D) Although we work hard to heal the hole in the ozone layer over Antarctica
- E) Whatever action is taken by the governments and non-governmental organizations

38. Since many people find the black bat flower (*taccachantrieri*) too scary, ----.

- A) new studies are being conducted to make it even more scary
- B) a white species has recently been cultivated to make it more marketable as a product
- C) it is only found in specific parts of the Southeast Asia
- D) it is easy to confuse this flower with white bat flower (*tacca nivea*)
- E) visiting where it grows will provide a wonderful experience

39. Water vapour condenses to form cloud droplets or ice crystals at various heights, ----.

- A) although this leads to desertification of many areas
- B) so it is essential to follow the process carefully
- C) as long as it is at the right altitude and height with some rain
- D) but differing heights are not that much necessary for it to grow
- E) and these create a variety of different cloud systems

40. ----; as a result, they are unrealistic and we lack reliable data on what ecosystems might look like in the future.

- A) The course of climate change is less dangerous than estimated
- B) Climate change and global warming have become serious issues so far
- C) Many studies on climate change reveal quite consistent data
- D) Most experiments on climate change do not correspond to expected climate scenarios
- E) Many ecologists work hard to find applicable solutions to climate change

41. During rift migration, whereas the crust on one side of the rift is weakened by hot upwelling material in Earth's mantle, ----.

- A) these transferred crustal blocks are strongly extended by the rift
- B) the other side is slightly stronger as the crust there is colder
- C) this relocation of a rift takes quite a long time to take place
- D) the new models reveal that extension velocity plays a crucial role
- E) rifts constitute an important tectonic element of our planet

42. - 47. sorularda, verilen İngilizce cümleye anlamca en yakın Türkçe cümleyi bulunuz.

42. Helium is crucial for the MRI scans, deep sea diving and scientific research, as well as for the production of computer chips.

- A) Helyum bilgisayar çiplerinin üretimi, MRI taramaları, derin deniz dalışı ve bilimsel araştırmalar için oldukça önemlidir.
- B) Helyum, bilgisayar çiplerinin üretimi için olduğu kadar, MRI taramaları, derin deniz dalışı ve bilimsel araştırmalar için de çok önemlidir.
- C) Bilgisayar çiplerinin üretimiyle birlikte, MRI taramaları, derin deniz dalışı ve bilimsel araştırmalar için de helyum gereklidir.
- D) MRI taramaları, derin deniz dalışı ve bilimsel araştırmaların yanı sıra, bilgisayar çiplerinin üretiminde de helyuma ihtiyaç duyulur.
- E) Helyum, MRI taramaları, derin deniz dalışı, bilimsel araştırmalar ve bilgisayar çiplerinin üretiminde çok gereklidir.

43. Albert Einstein made many significant discoveries as a scientist, but is most known for his Theory of Relativity.

- A) İnsanlar, bir bilim insanı olarak birçok önemli keşif yapmasına rağmen Albert Einstein'ı İzafiyet Teorisi ile tanımaktadırlar.
- B) Albert Einstein bir bilim insanı olarak birçok önemli keşif yapmasına rağmen, sadece İzafiyet Teorisi ile bilinmektedir.
- C) En çok İzafiyet Teorisi ile bilinmesine rağmen, Albert Einstein bir bilim insanı olarak birçok keşif yapmıştır.
- D) Albert Einstein bir bilim insanı olarak birçok keşif yapmıştır ama en bilineni İzafiyet Teorisidir.
- E) Albert Einstein bir bilim insanı olarak birçok önemli keşif yaptı ama en çok İzafiyet Teorisi ile tanınmaktadır.

44. Dark matter is a type of matter which is thought to be responsible for much of the mass in the universe.

- A) Karanlık madde evrendeki kütlenin çoğundan sorumlu olduğu düşünülen bir madde tipidir.
- B) Evrenin büyük bir kısmının bir madde türü olan karanlık maddeden oluştuğu düşünülmektedir.
- C) Madde türlerinin en bilineni olan karanlık madde, evrenin çoğunu oluşturmaktadır.
- D) Evrendeki kütlenin çoğunluğunu oluşturmaktan sorumlu olduğu düşünülen madde, kara maddedir.
- E) Karanlık maddenin bilinen en büyük işlevi evreni oluşturmaktan sorumlu olmasıdır.

45. The brain controls and coordinates actions and reactions, allows us to think and feel, and enables us to have memories and feelings.

- A) Beyin hareketlerimizi ve tepkilerimizi kontrol ve koordine etmekle kalmaz, düşünmemize ve hissetmemize izin verip, anılara ve hislere sahip olmamıza da olanak sağlar.
- B) Beyin hareketlerimizi ve tepkilerimizi kontrol ve koordine ederek, düşünmemizi, hissetmemizi ve anılara ve hislere sahip olmamızı mümkün kılar.
- C) Beyin hareketlerimizi ve tepkilerimizi kontrol ve koordine eder, düşünmemize ve hissetmemize imkân verir ve anılara ve hislere sahip olmamıza olanak tanır.
- D) Beyin hareketlerimizi ve tepkilerimizi kontrol ve koordine ederek, düşünmemize ve hissetmemize imkân tanıyarak anılara ve hislere sahip olmamızı sağlar.
- E) Beyin hareketlerimizi ve tepkilerimizi kontrol ve koordine eder ve düşünerek ve hissederek anılara ve hislere sahip olmamıza olanak verir.



46. Melatonin is produced by various tissues in the body although the major source is the pineal gland in the brain.

- A) Melatonin vücuttaki çeşitli dokular tarafından üretilmesine rağmen ana kaynağı beyindeki epifiz bezidir.
- B) Melatonin vücuttaki çeşitli dokular tarafından üretilir ve ana kaynağı beyindeki epifiz bezidir.
- C) Ana kaynağı beyindeki epifiz bezi olan melatonin vücuttaki çeşitli dokular tarafından üretilmektedir.
- D) Ana kaynağı beyindeki epifiz bezi olmasına rağmen, melatonin vücuttaki çeşitli dokular tarafından üretilir.
- E) Melatoninin ana kaynağı beyindeki epifiz bezidir ancak vücuttaki çeşitli dokular tarafından da üretilir.

47. Finding the maximum mass that physics and nature allow can teach us a great deal about this otherwise inaccessible realm in astrophysics.

- A) Fizik ve doğanın imkân tanıdığı en büyük kütleyi bulmak bize astrofizikteki başka türlü ulaşılmaz olan bu alan ile ilgili çok şey öğretebilir.
- B) Fizik ve doğa bize astrofizikteki bu erişilmez alanın mümkün olmadığını öğretmiştir, aksi halde en büyük kütleler mümkün olmazdı.
- C) Fizik ve doğa bize başka durumlarda mümkün olan en büyük kütlelerin astrofiziğin bu alanında mümkün olmadığını öğretir.
- D) Birçok şey öğrendiğimiz fizik ve doğa bize astrofiziğin bu alanında en büyük kütlelerin erişilmez olduğunu öğretir.
- E) Fizik ve doğanın imkân tanıdığı en büyük kütleyi bulmak astrofiziğin başka türlü erişilmez olan bu alanı hakkında bize pek çok şey öğretebilir.

48. - 53. sorularda, verilen Türkçe cümleye anlamca en yakın İngilizce cümleyi bulunuz.

48. Eğer yarı iletkenleri bir süre oda ısısında bırakırsanız, iletken kuşağına erişmek için yeterli kadar enerji elde ederler ve iletken hale gelirler.

- A) If semiconductors are left in the room temperature for a while, they can gain sufficient energy to reach conduction band to become conductors.
- B) If you leave semiconductors in room temperature for a while, they gain sufficient energy to reach conduction band and become conductors.
- C) When you leave semiconductors in room temperature for some time, they gain enough energy and become conductors.
- D) When left in room temperature for some time, semiconductors obtain enough energy to become conductors by reaching conduction band.
- E) If left in room temperature for a while, semiconductors can gain sufficient energy to reach conduction band to become conductors.

49. Fırtınalar, güçlü rüzgârlar ve artan su yüksekliğinden ötürü kıyı erozyonu ve diğer kıyı şeridi değişikliklerine sebep olabilirler.

- A) Storms lead to coastal erosion and other shoreline changes as severity winds and water height increase.
- B) Storms might cause coastal erosion and other shoreline changes in spite of strong winds and increased water height.
- C) Storms could lead to coastal erosion and other shoreline changes due to strong winds and increased water height.
- D) Due to strong winds and increased water height, storms might bring about coastal erosion and various shoreline changes.
- E) Strong winds and increased water height due to storms could cause coastal erosion and other shoreline changes.

50. Birçok faktör, hem doğal hem de insan kaynaklı, Dünya'nın enerji dengesinde değişikliklere neden olur.

- A) Many natural and human-driven factors cause changes in Earth's energy balance.
- B) Earth's energy balance changes due to many natural and human-driven factors.
- C) Both natural and human-driven factors cause many changes in Earth's energy balance.
- D) A lot of factors, both natural and human-driven, cause Earth's balance to change.
- E) Many factors, both natural and human-driven, cause changes in Earth's energy balance.

51. Geometri bize hangi malzemeleri kullanacağımıza, hangi tasarımı yapmamıza karar vermede yardımcı olur ve inşa sürecinde de hayati bir rol oynar.

- A) Geometry enables us to decide which materials to use, which design to make and also plays an important role in the construction process.
- B) Geometry not only helps us in deciding which materials to use, which design to make but also it plays a vital role in the construction process.
- C) Geometry makes us decide which materials to use, which design to choose and plays a vital role in the construction process.
- D) Geometry helps us in deciding which materials to use, which design to make and also plays a vital role in the construction process.
- E) Geometry helps us decide what materials to use, and what design to choose and has a significant role in the construction process.

52. Radyoaktivitenin ilk kâşiflerinden birçoğu ilk başta keşiflerinin ne işe yaradığını anlamamıştır; örneğin, Becquerel, bir süre radyoaktivitenin bir floresan tipi olduğuna inanmıştır.

- A) Many first discoverers of radioactivity didn't understand what function it served at first; for example, Becquerel believed for a while that radioactivity was a type of fluorescence.
- B) Many first researchers of radioactivity didn't understand how their discoveries could be used at first; for example, Becquerel thought that radioactivity was a type of fluorescence.
- C) Many first researchers of radioactivity didn't know how to use their discoveries at first; for instance, Becquerel claimed for a while that radioactivity was a type of fluorescence.
- D) Many first discoverers of radioactivity didn't understand how their discoveries worked at first; for instance, Becquerel suggested for a while that radioactivity was a type of fluorescence.
- E) Many first discoverers of radioactivity didn't know how to benefit from their discoveries at first; for example, Becquerel believed for a while that radioactivity was a type of fluorescence.

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53. Mühendislerin piyasadaki rekabet gücünü arttıracak olan tüm gerekli özellikleri edinebilmeleri için, mühendislik eğitiminde disiplinler arası bir yaklaşım uygulanmalıdır.

- A) In order to gain all the necessary qualifications, engineers should care pay attention to their competitiveness in the market and the approach which is implemented in engineering education.
- B) In order for engineers to obtain all the required qualifications that will promote their competitiveness in the market, an interdisciplinary approach should be implemented in engineering education.
- C) All the qualifications that help for engineers better their competitiveness in the market, an interdisciplinary approach should be adopted in engineering education.
- D) To acquire all the required qualifications for engineers to promote their competitiveness in the market, an interdisciplinary approach will be implemented in engineering education.
- E) To hold all the necessary qualifications for engineers which promote competitiveness in the market, an interdisciplinary approach has to be executed in engineering education.

54. –59. Sorularda paragrafta verilen boşluğa anlam bütünlüğünü sağlamak için getirilebilecek cümleyi bulunuz.

54. **Bacteria feed in different ways. Heterotrophic bacteria, or heterotrophs, get their energy through consuming organic carbon. ----. Some of these parasitic bacteria kill their host, while others help them. On the other hand, autotrophic bacteria, or autotrophs, make their own food, either through photosynthesis, using sunlight, water and carbon dioxide, or chemosynthesis, using carbon dioxide, water, and chemicals such as ammonia, nitrogen, sulphur, and others.**

- A) Autotrophs are completely different from heterotrophs in some ways
- B) Like autotrophs, they make their own food through different syntheses
- C) Multiplication of these two types of bacteria have some similarities
- D) Most absorb dead organic material, such as decomposing flesh
- E) Bacteria are one of the most interesting species in the world

55. **The brain works by transmitting information between neurons (or other receptor or effector cells) through electrochemical pulses. This transmission of information is produced during synapsis. During synapsis, neurons and cells connect and electric pulses and neurotransmitters are exchanged, which are in charge of activating or inhibiting the action of the other cell. Hundreds of connections that allow us to perceive, understand, and react appropriately are coordinated. All of this transmission of information by neurons happens in just milliseconds. ----.**

- A) That is, we receive thousands of inputs and generate thousands of outputs just in seconds
- B) However, this process takes much longer than necessary
- C) Therefore, we need more information about how the brain controls the body
- D) Even so, the brain is still full of mysteries regarding its physical composition
- E) On the other hand, transmission between neurons is considerably slow.

56. With few exceptions, the buildings we occupy are rigid and stationary. This is generally a good thing. But what we gain in stability, we lose in flexibility and adaptability. As buildings become smarter and more responsive to their internal environment, the architecture should be somewhat responsive, too. In other words, the exterior parts of the buildings should be adapted as well. ----.Architects have long been exploring the value and reliability of adaptive architecture through conceptual projects. A project by Barcelona's Institute for Advanced Architecture of Cataluña continues that exploration by working on how to adapt physical spaces based on various environmental inputs.

- A) Architecture has become a very popular field
- B) There is no need to modify buildings anymore
- C) The problem is that it is not very easy to do this
- D) Nobody wants their roofs to fly away due to winds
- E) It is good to keep the original forms of buildings

57. Part of living in the digital era is understanding that our private information is more vulnerable than ever before. Every day, news stories about ID theft and data break out, with the effects being felt by millions of consumers. And while companies and institutions are constantly working to protect themselves with increasing security measures, you can play a role in this fight as well. ----. However, cyber security doesn't involve just businesses and the government. Your computer, tablet and cell-phone probably contain information that hackers and other criminals would love to have, like other people's email addresses, names and birthdates. In a connected world, we each have a responsibility to protect ourselves and the people we interact with, and it all starts with understanding cyber security.

- A) When you are aware of the risks, it may be much easier to protect yourself from hackers, viruses and malware
- B) The information shared on the web is stored, often to be used commercially
- C) You can read and search more about cyber- attacks and cyber bullies online or contact authorities easily
- D) Protection of online privacy should be the focus of governments first
- E) We should start training our children against all kinds of invasion of privacy, especially against cyber-attacks and cyber bullies

58. Globally there are more honey bees than other types of bee and pollinating insects, so it is the world's most important pollinator of food crops. ----. Many domestic and imported fruits and vegetables require pollination. Examples include avocados, soybeans, asparagus, broccoli, celery, citrus fruit, peaches, kiwis, cherries, cranberries and melons. For crops such as blueberries and almonds, the honey bee plays an essential role in pollination of commercial crops, with around 80% of the US crop said to be dependent on honey bees.

- A) Honey bees and bumble bees can also pollinate clover and alfalfa
- B) It is estimated that 1/3 of the food we consume each day relies on pollination mainly by bees
- C) Many flowering food crops in the UK rely on all types of bees
- D) In order to be able to feed the world's growing population, we need ever more food
- E) Bees are vital for the preservation of ecological balance and biodiversity in nature

59. Genetic engineering has been applied in numerous fields. ----. In research, GMOs are used to study gene function and expression through loss of function, gain of function, tracking and expression experiments. By eliminating genes responsible for certain conditions, it is possible to create animal model organisms of human diseases. As well as producing hormones, vaccines and other drugs, genetic engineering has the potential to cure genetic diseases through gene therapy.

- A) An organism generated through genetic engineering is considered genetically modified
- B) The rise of commercialized genetically modified crops has provided economic benefit to farmers
- C) Genetic engineering alters the genetic structure of an organism by either removing or introducing DNA
- D) Humans have altered the genomes of species for thousands of years through selective breeding
- E) These include research, medicine, industrial biotechnology and agriculture

60. – 65. Sorularda verilen cümleler sırasıyla okunduğunda **anlam bütünlüğünü bozan cümleyi** bulunuz.

60. (I)Embryology has a long history. (II) It is believed to have started when **Aristotle proposed** the currently accepted theory of epigenesis, that is, organisms develop from a seed or an egg in a sequence of steps. (III)Then, the alternative theory, pre-formation is memerged, which is based on the belief that organisms develop from pre-existing miniature versions of themselves. (IV)Embryology is central to evolutionary developmental biology, which studies the genetic control of the development process.(V) Modern embryology, on the other hand, developed from the work of von Baer, though accurate observations had been made in Italy by anatomists such as Aldrovandi and Leonardo da Vinci in the Renaissance.

- A) I B) II C) III D) IV E) V

61. (I)The rocky planets have similar origins, but only one supports life. (II)The current number of planets orbiting our star is eight, which are basically divided into two main groups.(III) The inner, rocky planets are Mercury, Venus, Earth and Mars. (IV)The outer planets are gas giants Jupiter and Saturn and ice giants Uranus and Neptune.(V)Beyond Neptune, a newer class of smaller worlds called dwarf planets reign, including perennial favorite Pluto, whose status as a heavenly body is still controversial among astronomers.

- A) I B) II C) III D) IV E) V

62. (I) Technology can be dangerous in many different ways, from a total loss of privacy to a compromised health. (II) The extent of the damage will greatly depend on what particular technology we look at, how exactly we decide to use it, and what regulations or laws will be enforced in the near future to prevent worst-case scenarios from happening. (III) Virtual reality has already transformed many industries, from advertising and gaming to education and real estate. (IV) The positive side is that mankind seems to understand that not all technological advancements have the potential to benefit us or move things forward. (V) The negative side, however, is that this understanding does not stop us from pushing things in a potentially dangerous direction.

A) I B) II C) III D) IV E) V

63. (I) Helium, the second most abundant element in the universe, was discovered on the sun before it was found on the earth. (II) Pierre-Jules-César Janssen, a French astronomer, noticed a yellow line in the sun's spectrum while studying a total solar eclipse in 1868. (III) Sir Norman Lockyer, an English astronomer, realized that this line, with a wavelength of 587.49 nanometers, could not be produced by any element known at the time. (IV) It was hypothesized that a new element on the sun was responsible for this mysterious yellow emission. (V) The earth's atmospheric helium is replaced by the decay of radioactive elements in the earth's crust.

A) I B) II C) III D) IV E) V

64. (I) It takes a special person to strand themselves at the bottom of the Earth in the name of science. (II) But that is exactly what a handful of humans do each and every summer (when it is winter in the Southern Hemisphere) at the Geographic South Pole. (III) It is the coldest and driest place on the globe, and our southern pole is one of the most isolated places. (IV) Those who live at the Amundsen-Scott South Pole Station here for the winter are assured a season full of hardships and isolation that has been afforded by only a handful of people. (V) Due to the slope of the planet's axis, the South Pole experiences one sunset and one sunrise per year.

A) I B) II C) III D) IV E) V

65. (I) The First Industrial Revolution was the transition to new manufacturing processes in Europe and the United States from about 1760 to sometime between 1820 and 1840. (II) The precise start and end of the Second Industrial Revolution is still debated among historians, as is the pace of economic and social changes. (III) This transition included going from hand production methods to machines, new chemical manufacturing and iron production processes. (IV) It also led to the increasing use of steam power and water power, the development of tools and the rise of the mechanized factory system. (V) The Industrial Revolution also led to an unprecedented rise in the rate of population growth.

A) I B) II C) III D) IV E) V



**66-68. soruları aşağıdaki parçaya göre cevaplayınız.**

There are two most important reasons why coding should be taught in schools. The first one is it gives children the ability to solve problems, which is a trait useful in life in general. We all want our children to become excellent problem solvers so that they can overcome any adversity they face. Learning to code gives children the chance to learn this type of skill while they are young and it can help them along the way in life. When children learn to code, they develop the ability to bounce back after failure. They learn that failure isn't necessarily a bad thing, and in fact, it can often be something positive as it serves as a learning opportunity. Coding gives children the ability to try and try again until they succeed and produce the result they are looking for. Secondly, and quite related to the first reason, learning to code teaches children how to think. Computer programming isn't just about teaching how to type lines of code. It is more about teaching children how to think differently and logically. They need to be able to see a large problem and break it down into smaller pieces to solve it in an effective manner, which is called decomposition and is one of the key features of computational thinking. Children learning to code will need to take a vague idea and use their creativity to turn it into something effective. If the first solution doesn't work, they try again and again until the problem is solved. Coding helps to develop this way of thinking and these types of thinking skills are highly sought after.

**66. The text is mainly about ----.**

- A) how useful coding can be especially for children who consider becoming computer programmers
- B) why coding is essential in computer programming and in real life
- C) the necessity of having the ability to solve problems when learning to code
- D) the importance and necessity of teaching coding to children at school
- E) the different aspects of learning to code among young children

**67. It is clearly stated in the text that ----.**

- A) it is a necessity for people to learn coding to be successful in their lives
- B) learning coding provides two main benefits for children, especially for their future lives
- C) coding might not be beneficial at later ages, so it should be taught at younger ages
- D) learning coding is a controversial issue that should be considered carefully
- E) being able to solve problems and learning how to think are the two most important qualities in life

**68. It can be inferred from the text that ----.**

- A) when learnt at a younger age, coding enables children to cope better in their later lives
- B) it might sometimes be difficult for children to learn problem solving at school
- C) coding is an entertaining, but demanding skill that might not be necessary all the time
- D) many people might oppose the idea of teaching coding at schools
- E) coding can be beneficial to children only for a short period of time

**69-71. soruları aşağıdaki parçaya göre cevaplayınız.**

Noise pollution has been a by-product of the growth and development of society. Industries, transport, and urbanization fill the environment with noise, and this change in the acoustic environment of habitats have adverse impacts on all species. Here are some of the effects of it on humans: Noise can directly impact the health of humans. For example, chronic exposure to noise above the 55 decibels level can increase the chances of developing cardiovascular diseases. According to World Health Organization, an estimated one million healthy years of life are lost annually in Europe alone due to the adverse effects of traffic noise. The majority of these years lost are due to cardiovascular diseases, including heart attacks, high blood pressure, and coronary heart disease. According to studies, high noise levels trigger the release of stress hormones that damage blood vessels. Constant exposure to high noise levels can also temporarily or permanently alter human behaviour. Children are especially prone to such changes. The learning and behaviour of children living in noisy localities are adversely impacted. Research has shown that aircraft noise impacts the reading skill development in children attending schools near busy airports. Exposure to noise is also stressful for adults and has negative impacts on their behaviour, which can result in lower levels of patience, irritable behaviour, and provoking anger.

**69. It is pointed out in the passage that noise pollution ----.**

- A) affects humans the most as they are the reason for such a pollution
- B) might lead to extinction of many different species of animals and plants
- C) has been a serious problem since the beginning of history
- D) might lead children to develop high blood pressure and coronary heart disease
- E) has an adverse effect on all the living things in the world

**70. It can be inferred from the passage that ----.**

- A) one million healthy people in Europe lose their lives due to noise pollution
- B) even if you are not exposed to noise pollution, you might be affected negatively by it
- C) noise pollution was not a problem when there was not such growth and development in society
- D) exposure to 55 decibels of noise results in heart-related diseases among people
- E) noise pollution is not serious as an issue compared to other types of pollution

**71. According to the text, ----.**

- A) children are the ones who are more vulnerable to excessive noise compared to adults
- B) noise pollution triggers the release of stress hormones in all species
- C) in Europe, one million people die due to noise pollution every year
- D) adults who are constantly exposed to noise can display erratic behaviours and harm others
- E) the success rate of schools near busy airports are lower than the other schools



**72. - 74. soruları aşağıdaki parçaya göre cevaplayınız.**

The universe's first stars ignited some 180 million years after the Big Bang, the explosive moment 13.8 billion years ago that marks the origins of the universe as we know it. Gravity had sculpted the first galaxies into shape by the time the universe turned 400 million years old, or less than 3 percent of its current age. Astronomers now think that nearly all galaxies – with possible exceptions – are embedded in huge haloes of dark matter. Theoretical models also suggest that in the early universe, vast “branches” of dark matter provided normal matter with the gravitational framework it needed to blend into the first galaxies. But there are still some questions about how galaxies form. Some believe that galaxies formed from smaller clusters of about one million stars, known as globular clusters, while others hold the belief that galaxies formed first, and later gave birth to globular clusters. It's also difficult to figure out how many of a given galaxy's stars formed in situ from its own gas, versus forming in another galaxy and joining the party later. By letting astronomers peer into the universe's farthest reaches, and earliest moments, instruments such as NASA's James Webb Space Telescope should help resolve long-lasting questions.

**72. It is understood from the passage that ----.**

- A) the first stars in the universe ignited a few years after the Big Bang
- B) according to astronomers, almost all galaxies might be surrounded by giant haloes of dark matter
- C) the ignition of the first stars in the universe paved the way for the big bang
- D) it is believed that normal matter provided dark matter with gravitational framework
- E) we now know exactly how and when our galaxy was formed

**73. The text is mainly about ----.**

- A) why questions about how galaxies form cannot be answered astronomers
- B) the relationship between dark matter and the formation of the universe
- C) what kind of a role gravity played in the formation of the galaxies
- D) the different theories about the formation of galaxies within the universe.
- E) how helpful James Webb Space Telescope can be about the formation of galaxies

**74. From the text, we can infer that ----.**

- A) further research and analysis are required to better understand the Big Bang Theory
- B) gravity formed the first galaxies short after the universe formed
- C) galaxies formed globular clusters and globular clusters formed the stars
- D) astronomers share similar opinions about the formation of galaxies
- E) there is still not an exact answer to the question of how galaxies formed

**75. - 77. soruları aşağıdaki parçaya göre cevaplayınız.**

In an effort to produce an affordable car for German workers, Adolf Hitler had commissioned engineer Ferdinand Porsche to design a simple, economical vehicle for the people in 1938. The Type 1 (as it was known) had a rear, air-cooled engine and borrowed design elements from an earlier Porsche car (the Type 12 he built for Zündapp) and several models from the Czechoslovakia automaker Tatra. In May, Hitler laid the cornerstone of the Volkswagen factory in Wolfsburg, Germany. Civilian production was almost immediately stopped because of World War II, but some cars were built for military officers. Hitler was given the first convertible. Following the end of the war, the factory was put under British control as Germany lost the war. By the end of 1946, more than 10,000 cars were manufactured. A decade later, one million had been sold. In 1959, under the supervision of William Bernbach of the New York advertising agency Doyle Dane Bernbach, copywriters Julian Koenig and Helmut Krone created the now legendary "Think small" ad for Volkswagen with a tiny Beetle in a plane of white space. "Maybe we got so big because we thought small," it advertised. Forty years later, Ad Age named it the best advertising campaign of the 20<sup>th</sup> century.

**75. The reason why Hitler hired Porsche was to ----.**

- A) make him design a reasonably priced car that people could buy
- B) make Porsche Type 12 an economical car for people to buy
- C) have a similar but cheaper model of Tatra in Germany
- D) to produce his own unique model of a car to drive during the war
- E) design a car that could compete with Tatra and other manufacturers

**76. The text is mainly about ----.**

- A) Hitler's role in the popularity of Beetle
- B) the importance of Beetle for Hitler
- C) a brief history of Beetle
- D) the best advertising campaign for Beetle
- E) the popularity of Beetle

**77. It is clearly stated in the text that ----.**

- A) the Beetle ad of 1959 has lost its popularity today
- B) Hitler gave the Volkswagen factory under British control
- C) before the World War II civilian production of Volkswagen was stopped
- D) within a decade, one million Volkswagen cars were sold
- E) Type 1 was influenced by Porsche Type 12 and Tatra models

**78. -80. soruları aşağıdaki parçaya göre cevaplayınız.**

All matter is made up of atoms. This is something we now take as a given, and one of the things we learn right back at the beginning of high school or secondary school chemistry classes. Despite this, our ideas about what an atom is are surprisingly recent: as little as one hundred years ago, scientists were still debating what exactly an atom looked like. The idea of atoms was around long before. In fact, we have to go all the way back to Ancient Greece to find its genesis. The word 'atom' actually comes from Ancient Greek and roughly translates as 'indivisible.' The Ancient Greek theory has been credited to several different scholars, but is most often attributed to Democritus (460 – 370 BC) and his mentor Leucippus. Though their ideas about atoms were elementary compared to our concepts today, they outlined the idea that everything is made of atoms, invisible and indivisible spheres of matter of infinite type and number. These scholars imagined atoms as varying in shape depending on the type of atom. They envisaged iron atoms as having hooks which locked them together, explaining why iron was a solid at room temperature. Water atoms were smooth and slippery, explaining why water was a liquid at room temperature and could be poured. Although we now know that this is not the case, their ideas laid the foundations for future atomic models.

**78. According to the text, ----.**

- A) we have recently learned about what an atom is and how it looks
- B) that all matter is made up of atoms is new information for us
- C) one hundred years ago scientists already knew what an atom is
- D) the origins of atom were not known in Ancient Greece
- E) where the word 'atom' comes from is still not clear today

**79. It can be understood from the text that ----.**

- A) Leucippus and Democritus were the two Greek scholars who discovered atoms
- B) the Greek scholars' knowledge on atoms was much more than ours
- C) the ideas of the Greek scholars helped us to understand the atomic models today
- D) water is liquid because its atoms are smooth and slippery
- E) Greek scholars did not know that atoms are invisible and indivisible

**80. The text is mainly about ----.**

- A) different types of atoms
- B) what an atom is
- C) scholars in Ancient Greece
- D) the history of atom
- E) the importance of atom in chemistry

**TEST BİTTİ.**  
**LÜTFEN CEVAPLARINIZI**  
**KONTROL EDİNİZ.**