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1. From the bags **that** find their way to the ocean and into the stomachs of whales to the straws **that** hurt turtles to the microscopic shards and synthetic fibers **that** have been found in the remote Arctic, plastic permeates the planet.
2. Every year the world experiences approximately 350 natural disasters, **which** harm millions of people.
3. Stating that Virtual Reality “will help make mental health care cheaper and more accessible” risks overselling an intervention **that** cannot be robustly validated.
4. The validity of all 33 states permitting the use of cannabis as an analgesic got a big boost in 2017, **when** the National Academies of Sciences, Engineering, and Medicine released a detailed report concluding that there was “substantial evidence that cannabis is an effective treatment for chronic pain in adults.
5. There are a lot of reasons **why** people get sick and they cannot recover quickly when they are infected with an unknown virus.
6. In the Transantarctic Mountains, **where** hard, dry winds slowly evaporate snow and ice, glaciers often have deep, relatively transparent ice exposed on the surface.
7. Spiral arms tend to glow in blue light, **which** comes from gigantic stellar nurseries **where** massive stars are forming.
8. Twenty-five years ago experts believed that sleep apnea, **in which** breathing is disrupted during sleep, was about 10 times as common in men as in women.
9. The magnitude of the earthquake, which took place in India, led to a massive humanitarian response and more than \$14 billion was mobilized, 39 percent **of which** came from voluntary private donations, to help tsunami victims around the Bay of Bengal and elsewhere.
10. DNA bar coding has been around since the early 1990s, **when** Richard Lerner and the late Sydney Brenner, both then at the Scripps Research Institute, proposed it as a way to track chemical reactions.
11. A science teacher **who** won the 2019 Global Teacher Prize announced he intends to donate the \$1-million award to benefit society.
12. One of the oldest skeletal forms is Namacalathus, **whose** cup-shaped hard parts are typically preserved en masse.
13. Chronic pain is an urgent problem for millions of people, many of **whom** are not helped by standard therapies.
14. Researchers are imitating an inconspicuous sea animal **whose** covering strikes a remarkable balance between protection and flexibility.
15. In the 1950s Alastair Pilkington introduced “float glass” whereby hot glass is floated on molten tin.
16. Researchers at the Large Hadron Collider Beauty (LHCb) experiment at CERN near Geneva have discovered antimatter and matter versions of “charm” quarks—one of six types, or flavors, of a class of elementary matter particles—**acting** differently from one another.
17. Each individual farmer is motivated to have as large a herd as possible, **leading** to overgrazing and financial ruin for all.

1. Woodrats build giant nests by dragging thousands of sticks across yards of dense undergrowth and these structures----- can stand up to four feet high and stretch to more than eight feet across—serve as nursery, toilet, pantry and sanctuary.
A) whose
B) who
C) why
D) where
E) which
2. The study of unihemispheric sleep started in 1964, ---- controversial researcher John C. Lilly suggested that dolphins could sleep using one side of the brain after observing that the animals keep only one eye closed during their daily rest.
A) why
B) when
C) whose
D) that
E) which
3. In “Face Values,” Doris Y. Tsao describes a technique ---- she and her colleagues are able to predict how neurons in certain areas of the cerebral cortex that are dedicated to facial recognition will respond to a given face by using 50 coordinates, or dimensions, for shape and appearance.
A) among which
B) to which
C) for which
D) during which
E) in which
4. The Hagia Sophia, originally a Byzantine church ---- in the sixth century, and for a short period in the 13th century a Catholic church, was converted into a mosque in 1453 and became a symbol of the Ottoman conquest of Istanbul by Mehmed II, also ---- as the conqueror.
A) building / knowing
B) being built / having been known
C) built / known
D) to be built / to have been known
E) to build / to know
5. Meteorologists predict that 2020 is likely to be the hottest year on record, ---- yet more bleaching on reefs around the world but it’s not just the coral itself that ----.
A) to be threatened / will suffer
B) being threatened / has suffered
C) to threaten / suffered
D) threatening / suffers
E) threatened / had suffered
6. ---- to cause 10 million deaths a year by 2050 if left unchecked, antimicrobial resistance (AMR) occurs where microorganisms, such as bacteria, viruses, fungi and parasites, ---- resistance to antimicrobial drugs.
A) Predicting / has developed
B) Having predicted / had developed
C) Predicted / develop
D) Being predicted / will develop
E) To predict / developed
7. In astrophysical settings, maser emission comes from solar system—scale clouds of gas ---- mass is comparable to that of Jupiter.
A) whom
B) why
C) which
D) where
E) whose
8. Service business models, ---- use of a product is sold rather than the product itself, aim to make more intensive use of existing stocks and examples of service business models already exist.
A) why
B) that
C) where
D) whose
E) when

9. Since 2010, wind energy ---- growth worldwide, with the amount of energy ---- by offshore wind increasing by nearly 30% each year.

- A) had been sustained / generating
- B) is sustained / being generated
- C) will be sustained / to be generated
- D) has been sustained / generated
- E) was sustained / to generate

10. Peatlands are a natural carbon sink and, despite ---- less than 3% of the Earth's land surface, they contain 20% of all the carbon ---- in soils worldwide.

- A) to cover / having stored
- B) covered / storing
- C) covering / stored
- D) to be covered / to be stored
- E) being covered / having been stored

11. In "Safe Injection Facilities Save Lives" Science Agenda, the editors argue for the use of places ---- addicts can consume illegal drugs under medical supervision as a way to fight the opioid crisis.

- A) for which
- B) through which
- C) on which
- D) in which
- E) towards which

12. ---- in 2016, the video-sharing service, TikTok, is now the fourth most popular app in the world and ---- 1.9 billion downloads worldwide.

- A) Being launched / had achieved
- B) Having been launched / has achieved
- C) Launching / will achieve
- D) To launch / achieved
- E) To have been launched / achieves

13. Research shows that doctors who offer empathic and positive messages can reduce a patient's pain, improve their recovery after surgery and lower the amount of morphine they need but it doesn't mean that telling a patient something simple, ---- "this drug will make you feel better", will have an effect.

- A) more than
- B) such as
- C) as much as
- D) so many as
- E) too

14. In the global race ---- the coronavirus pandemic, there is hopeful news on the vaccine front, with a number of potential candidates ---- and some promising early results.

- A) to have contained / developing
- B) containing / developed
- C) to contain / being developed
- D) having contained / to develop
- E) to be contained / having been developed

15. Arts Council England (ACE) ---- the unprecedented step of including comedy as a form of theatre under the terms of the Culture Recovery Fund, part of the emergency response package ---- cultural institutions recover from the blow they have taken during the pandemic.

- A) had taken / helping
- B) took / being helped
- C) has taken / to help
- D) will take / to have helped
- E) takes / to be helped

16. Economists have put forward a range of explanations ---- inequality has in fact been increasing in many developed countries.

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

17. Prioritizing online applications over in-person procedures is a problem for low-income families, nearly half of ---- lack Internet access.

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

18. Wildlife biologists ---- that adolescent male Asian elephants, usually solitary, are forming large, all-male herds, possibly to help them ---- in human-dominated areas.

- A) found / surviving
- B) had found / to survive
- C) will find / to have survived
- D) find / to be surviving
- E) has found / survive

19. Archaeologists ---- charred lake sediments found evidence confirming a cryptic historical record saying the ancient Mayan city of Bahlam Jol burned on May 21, a.d. 697 and the research suggests it was an act of total warfare, which ---- civilian as well as military targets.

- A) to be studied / included
- B) to study / has included
- C) studying / includes
- D) being studied / had included
- E) to have studied / will include

20. As we look ahead and consider ways to offset the current climate of political tribalism and disconnection, the science of social connection is ---- relevant ---- ever.

- A) the same / as
- B) more / than
- C) such / that
- D) too / to
- E) such / as

21. If an economy starts out with lower inequality, the political system ---- rules that sustain it, ---- to one equilibrium situation.

- A) generates / leading
- B) generated / led
- C) has generated / being led
- D) had generated / having led
- E) will generate / to lead

22. Inequality has increased in most advanced countries because of factors ---- globalization, technological change and the shift to a service-based economy.

- A) more than
- B) such as
- C) as much as
- D) so many as
- E) as