

Set 1

- 1. With the discovery of new viruses, physicians and biologists now have a vast ---- of micsroscopic bodies to study.
 - A) outcome
 - B) equivalent
 - C) advocate
 - D) array
 - E) trait
- 2. In recent years, the advancement of Artificial Intelligence (AI) has spurred the ---- of personal health and fitness programs, showcasing the potential to revolutionize traditional diets and longlasting one-for-all exercise methods.
 - A) novelty
 - B) advent
 - C) execution
 - D) relevance
 - E) collaboration
- 3. Water is the most ---- element in the body, constituting the majority of its elemental mass and it is a colorless, odorless, and tasteless, existing as diatomic molecules. (H2O)
 - A) relentless
 - B) instantaneous
 - C) precise
 - D) comprehensive
 - E) abundant

- 4. The decline in certain contagious diseases cannot be attributed to vaccination alone; it also ---- the soaring awareness and higher sanitation over the past decades.
 - A) calls for
 - B) refers to
 - C) takes off
 - D) leads to
 - E) arises from
- 5. Despite its rarity and lower prevalence, schizophrenia still plays a ---- role in various studies in the realm of psychology.
 - A) crucial
 - B) detrimental
 - C) corruptible
 - D) delicate
 - E) deterrent
- Certain bacteria were not resistant to most viral infections formerly, yet subsequent modifications have ---- enhanced their resilience against viruses.
 - A) significantly
 - B) allegedly
 - C) punctually
 - D) appropriately
 - E) indefinitely





- 7. The extraordinary chameleon possesses specialized cells called chromatophores that allow it to change color and its appearance effectively to ---- its surroundings.
 - A) exhibit
 - B) match
 - C) assemble
 - D) enlighten
 - E) harness
- 8. Although yoga is considered a recent phenomenon for personal well-being, it is in fact a practice that ---- physical fitness and psychological peacefulness for millennia.
 - A) points to
 - B) aims at
 - C) looks up
 - D) takes off
 - E) puts off
- 9. The shift ---- renewable energy sources is perceived by many as a revolutionary step forward ---- combating climate change, although some remain skeptical about its capacity to fully replace traditional fossil fuels.
 - A) with / from
 - B) within / into
 - C) towards / in
 - D) about / for
 - E) of / by

- 10. In intertidal zones along the coastline, as the tide advances, numerous marine organisms become submerged;----, as it retreats, they are exposed to direct sunlight and air.
 - A) additionally
 - B) otherwise
 - C) similarly
 - D) consequently
 - E) conversely
- 11. To gain deeper insight ---- the locomotion of insects ---- their habitats, entomologists affixed a miniature camera on the back of the insect, which activates only upon stimulation by an accelerometer.
 - A) with / from
 - B) into / within
 - C) towards / in
 - D) about / for
 - E) off / among
- 12. The scientific past is intricately connected to chronological order, where events are arranged in linear sequence, and causality ---- the direction of time's arrow.
 - A) stems from
 - B) adheres to
 - C) looks up
 - D) takes off
 - E) sets up





Set 2

- 1. The concept of gravity ---- by ancient civilizations to a great extent, even though a comprehensive understanding of its mechanisms ---- much earlier.
- A) has been understood / was developed
- B) had been understood / will be developed
- C) was understood / had been developed
- D) is understood / would be developed
- E) used to be understood / is developed
- 2. Recent investigations ---- genetic mutations associated with certain diseases, prompting medical researchers to speculate that gene therapy ---- as a potential treatment option.
- A) have uncovered / could be used
- B) uncovered / should be used
- C) had uncovered / may be used
- D) will uncover / can be used
- E) uncover / will be used
- 3. Many studies have indicated a correlation between regular exercise and improved cognitive function, leading scientists ---- that physical activity ---- brain health.
- A) to have concluded / will benefit
- B) concluding / would benefit
- C) having concluded / benefited
- D) to conclude / benefits
- E) conclude / benefiting

- 4. Numerous experiments have revealed evidence of plasticity in the human brain, prompting neuroscientists ---- that the brain's structure and function ---- constantly.
- A) to acknowledge / may change
- B) acknowledging / must change
- C) having acknowledged / needed to change
- D) to have acknowledged / could change
- E) acknowledge / will change
- 5. Out of all the space missions which ---- since the 1960s, only the Apollo 11 mission, which took place in 1969 under the auspices of NASA, ---- humans to set foot on the lunar surface
 - A) are conducted / has enabled
 - B) were conducted / enables
 - C) had been conducted / was enabling
 - D) will be conducted / had enabled
 - E) have been conducted / enabled
- 6. Out of all the space missions ---- since the 1960s, only the Apollo 11 mission, ---- place in 1969 under the auspices of NASA, enabled humans to set foot on the lunar surface
 - A) to conduct / to have taken
 - B) conducting / to be taken
 - C) having conducted / to take
 - D) to be conducted / taken
 - E) conducted / taking





- 7. Whether it ---- carbohydrates, proteins, or lipids, nutrients have the power ---- metabolic processes, regulate physiological functions, and support growth and development in organisms.
- A) is / to fuel
- B) has been / fueling
- C) will be / to be fueled
- D) was / fueled
- E) had been / fuel
- 8. Currently, medical researchers ---- the role of gut microbiota in metabolic disorders ---- innovative treatments for obesity and diabetes, aiming to improve overall health outcomes and quality of life.
 - A) are investigating / to develop
 - B) investigate / developing
 - C) investigated / to be developed
 - D) will investigate / developed
 - E) have investigated / develop
- 9. Before the discovery of antibiotics in the early 20th century, much of our understanding of infectious diseases ---- limited to observational studies and empirical treatments, ---- healthcare professionals with few effective interventions to combat bacterial infections.
- A) has been / to leave
- B) is / having left
- C) will be / leave
- D) was / leaving
- E) had been / left

- 10. As the understanding of climate change ---- over the past few decades, new regulations ---- on greenhouse gas emissions and renewable energy usage, driving efforts to mitigate the impacts of global warming and transition towards sustainable energy sources.
- A) had evolved / had been set
- B) has evolved / are being set
- C) evolved / were set
- D) evolves / are set
- E) is evolving / have been set
- 11. As the field of genomics ---- rapidly in recent years, new standards are being set for gene editing techniques and ethical guidelines, ---- research efforts towards precision medicine and genetic therapies.
- A) had advanced / to be guiding
- B) has advanced / guiding
- C) advanced / to be guided
- D) advanced / guided
- E) is advancing / guide
- 12. --- data from a long-term international study, the researchers ---- earlier this year that fluctuations in ocean temperature are closely linked to shifts in marine biodiversity, highlighting the complex interplay between environmental factors and ecosystem dynamics.
- A) To have analyzed / have found
- B) Analyzed / are finding
- C) To analyze / find
- D) Having analyzed / found
- E) Analyzing / will find





Set 3

- 1. In the field of astronomy, scientists are exploring the possibility ---- the existence of extraterrestrial life forms, which would greatly expand our understanding ---- the universe.
- A) for / through
- B) of / into
- C) in / at
- D) with / from
- E) about / towards
- 2. --- traditional medicine relied heavily on natural remedies and herbal treatments, modern healthcare systems have evolved to incorporate cutting-edge medical technologies and pharmaceutical interventions.
- A) As if
- B) Since
- C) Unless
- D) While
- E) Just as
- 3. ---- the isolated island habitat, limited gene flow, and unique environmental pressures, the endemic species of the Galápagos Islands have evolved distinct morphological traits and behavioral adaptations.
- A) Owing to
- B) Similar to
- C) In contrast to
- D) On behalf of
- E) In case of

- 4. The concept of artificial intelligence ---- by scientists for decades, but significant advancements ---- in its applications only recently.
 - A) was explored / have seen
 - B) has been explored / have been seen
 - C) will be explored / will be seen
 - D) had been explored / had been seen
 - E) is explored / are seen
- 5. The survival of a species often ---- the efficient allocation of its energy resources and its ability to adapt --- environmental fluctuations and ecological shifts.
 - A) on / by
 - B) with / from
 - C) upon / to
 - D) towards / with
 - E) about / for
- 6. ---- the rapid pace of technological innovation, many individuals struggle to keep pace with the latest developments in their respective fields and many
 - A) Thanks to
 - B) Due to
 - C) As in
 - D) As of
 - E) Despite





- 7. Ecologists ---- the decline of coral reefs to a combination of factors, including ocean warming, pollution, and overfishing, ---- the importance of conservation efforts and ecosystem management strategies.
- A) will attribute / to highlight
- B) attributed / highlighted
- C) are attributing / highlight
- D) attribute / highlighting
- E) have attributed / to be highlighted
- 8. --- the advancement of technology and the increasing collaboration between research institutions worldwide, scientific exchange has become more common, ---- accelerating the pace of discovery and innovation in fields such as biotechnology, nanotechnology, and renewable energy.
- A) Like / from
- B) About / by
- C) Without / to
- D) With / thereby
- E) In / towards
- 9. Many species of wildlife are at risk of extinction as a result of the destruction of their natural habitats, deforestation ---- urbanization.
- A) as well as
- B) because of
- C) including
- D) for the sake of
- E) despite

- 10. The effectiveness of a vaccination program is contingent ---- a high rate of participation ---- the population if the authorities are to reduce the spread of infectious diseases.
 - A) in / for
 - B) on / onto
 - C) upon / among
 - D) with / into
 - E) about / with
 - 11. The ecosystems of tropical rainforests and arctic tundras are renowned for their biodiversity, but they differ significantly from each other ---- species composition, ecological processes, and environmental conditions.
 - A) in terms of
 - B) in order for
 - C) as a result of
 - D) similar to
 - E) with a view to
 - 12. The behavior of atoms and molecules in solids and liquids is governed by fundamental principles of quantum mechanics, but their properties differ significantly from each other due to variations in ---atomic arrangement and bonding interactions, ---thermal motion.
 - A) no sooner / than
 - B) neither / nor
 - C) so / that
 - D) not only / but also
 - E) such / that

