

## SET1

**1. The global movement of agricultural products has led to the unintended and accelerated ---- of invasive plant species across continents, affecting local ecosystems.**

- A) concentration
- B) dissemination
- C) termination
- D) containment
- E) deviation

**2. Recent ---- in artificial intelligence algorithms have significantly improved the accuracy of weather forecasting models.**

- A) restrictions
- B) interruptions
- C) advancements
- D) breakdowns
- E) objections

**3. The research team was able to ---- a complex genetic analysis using cutting-edge sequencing technologies.**

- A) abandon
- B) execute
- C) oppose
- D) neglect
- E) interfere

**4. Many microorganisms exhibit ---- movements that are only detectable under a high-powered microscope.**

- A) enormous
- B) frequent
- C) vivid
- D) subtle
- E) obsolete

**5. The experiment produced results that were ---- precise, surprising even the most experienced scientists on the team.**

- A) marginally
- B) inconsistently
- C) remarkably
- D) casually
- E) routinely

**6. In order to understand atmospheric changes, researchers had to ---- a long-term observational study in multiple climate zones.**

- A) cut down on
- B) look up to
- C) make up for
- D) run out of
- E) go through with

**7.**

**Climate change models increasingly ---- the role of ocean currents in regulating global temperatures; however, these patterns ----- more unpredictable over the past decade, primarily due to melting polar ice and shifting wind systems that ----- atmospheric pressure zones.**

- A) have become / have been altering
- B) became / had altered
- C) will become / alter
- D) become / were altering
- E) are becoming / are being altered

**8. Recent breakthroughs in genetic engineering ----- the way for revolutionary therapies ----- unimaginable previously, such as personalized cancer treatments based on individual DNA sequences.**

- A) had paved / are being considered
- B) paved / are considered
- C) were paving / were being considered
- D) are paving / are being considered
- E) have paved / were considered

**8 Bonus.**

---- such unprecedented precision in robotic surgery, it is clear that scientists and engineers ----- years developing motion-control systems that accurately mimic the most delicate human hand movements.

- A) Having achieved / will have spent
- B) Being achieved / should have spent
- C) To be achieved / had to spend
- D) To have achieved / must have spent
- E) Having achieved / were going to spend

**9. Although Anders Celsius is best known--- his temperature scale, he also contributed to early geographic measurements by demonstrating that the Earth is slightly flattened ---- the poles and bulges at the equator.**

- A) around / up
- B) from / on
- C) by / from
- D) as / off
- E) for / at

**10. In recent studies, researchers have introduced genetically modified insects that disrupt pest populations without harming the ecosystem, particularly effective ----- enclosed agricultural zones and easily managed ----- large-scale farms.**

- A) for / near
- B) within / across
- C) into / above
- D) around / from
- E) by / toward

**11.**

**Advances in optical technology during the 17th century benefited astronomers ----- providing more accurate telescopes and contributed greatly ----- the observation of distant celestial bodies.**

- A) by / to
- B) from / for
- C) with / through
- D) for / about
- E) to / at

**12. Innovations in biotechnology have the potential to eliminate genetic diseases and extend human lifespan, but these benefits will only be realized ----- ethical guidelines are established and researchers are allowed to work within reasonable regulatory frameworks.**

- A) in case
- B) as though
- C) even if
- D) as long as
- E) just as

**13. ----- different surfaces of the planet—such as forests, oceans, and deserts—reflect and absorb solar radiation at various levels, climate patterns tend to form differently across geographic regions.**

- A) As though
- B) Since
- C) Whereas
- D) Until
- E) Whether

14. ----- fossil fuel consumption continues at its current pace without significant investment in renewable energy, global temperatures are likely to surpass the critical threshold set by international climate agreements.
- A) Although  
B) So that  
C) Unless  
D) If  
E) In order that
15. Interactive simulations and virtual labs are becoming essential tools in science education; -----, students learning about electric circuits can experiment with voltage and resistance digitally before working with physical components.
- A) for example  
B) nevertheless  
C) by comparison  
D) meanwhile  
E) instead
16. ----- LED lights do not rely on heat to produce illumination, they offer significantly higher energy efficiency and longer operational life than incandescent bulbs.
- A) Just as  
B) In case  
C) Because  
D) As if  
E) So that
17. ----- the theoretical advantages of quantum computing, many systems remain impractical due to extreme cooling requirements and unstable qubit coherence times.
- A) Instead of  
B) Despite  
C) Similar to  
D) Besides  
E) As a result of
18. ----- using fossil fuels for propulsion, hydrogen-powered vehicles operate on clean energy and emit only water vapor as a byproduct.
- A) Rather than  
B) Prior to  
C) As a consequence of  
D) In accordance with  
E) Except for
19. When navigating across power lines in urban environments, squirrels display remarkable agility and balance, often running quickly along the narrow cables, ---- on their hind legs for brief moments ---- on all four limbs for stability.
- A) such / that  
B) as / as  
C) either / or  
D) the more / the more  
E) so / that
20. The domesticated soybean plant is believed to have first been grown in East Asia, ---- it eventually became a cornerstone of traditional agriculture and a key protein source for local populations.
- A) which  
B) when  
C) how  
D) where  
E) why

## answer key:

**1. B) dissemination**

"Dissemination" means the act of spreading something widely, especially information or organisms—fitting the context of invasive species.

**2. C) advancements**

"Advancements" are improvements or developments in technology—synonymous with "enhancements".

**3. B) execute**

"Execute" means to perform or carry out a task, especially in a technical or planned context.

**4. D) subtle**

"Subtle" describes something that is delicate or difficult to perceive—similar in meaning to "imperceptible".

**5. C) remarkably**

"Remarkably" means in an unusual or surprising way—very close in meaning to "incredibly".

**6. E) go through with**

"Go through with" means to complete or **carry out** something planned, often despite difficulties—similar to "carry out".

## Set 2

**1. Due to increasing agricultural expansion and industrial development, the rapid and often irreversible ---- of natural wetlands has become a major ecological concern in many developing nations.**

- A) appreciation
- B) transformation
- C) depletion
- D) assumption
- E) interpretation

**2. The recent observation of gravitational waves by astronomers marked a major scientific discovery, confirming long-standing theoretical ---- and opening a new era of astrophysics.**

- A) suggestions
- B) interferences
- C) predictions
- D) interruptions
- E) conditions

**3. In high-precision laboratory experiments, scientists must routinely ---- their measurement devices to ensure that the data collected remains accurate and consistent with international standards.**

- A) predict
- B) analyze
- C) interpret
- D) calibrate
- E) distribute

**4. After extensive testing and simulation, the research team concluded that the proposed method of carbon capture was not only scientifically sound but also economically and logistically ---- for large-scale implementation.**

- A) apparent
- B) hazardous
- C) feasible
- D) instinctive
- E) repetitive

**5. To assess the long-term impact of climate change on polar ecosystems, researchers ---- reviewed satellite imagery, temperature records, and wildlife migration data collected over the past 30 years.**

- A) uniquely
- B) randomly
- C) constantly
- D) thoroughly
- E) supposedly

**6. Following repeated malfunctions during structural testing, the engineers were ultimately forced to ---- the initial prototype and redesign the system from the ground up to meet safety standards.**

- A) come up with
- B) put up with
- C) make up for
- D) look down on
- E) get rid of

**7. Because renewable energy technologies ----- rapidly over the past decade, many countries ----- them as central components of their national energy strategies.**

- A) will evolve / will consider
- B) have evolved / have adopted
- C) are evolving / are adopting
- D) evolved / were adopting
- E) had evolved / had adopted

**7 Bonus. The vaccine trial results ----- by the research team last week, but the full peer-reviewed report ---- - yet.**

- A) were released / hasn't been published
- B) have been released / didn't publish
- C) had been released / wasn't published
- D) will be released / isn't publishing
- E) are released / isn't going to publish

**8. In order to prevent contamination during the delicate gene-editing process, the laboratory staff ---- that they ----- all surfaces and equipment sterile and - follow proper safety protocols before each session.**

- A) are explaining / would have made
- B) explain / should have made
- C) had explained / will make
- D) explained / would make
- E) have explained / were going to make

**8 bonus.**

**Before launching the satellite, engineers ---- that they ----- that every component was securely fastened and all systems had passed the necessary diagnostics.**

- A) emphasize / will have ensured
- B) have emphasized / had to ensure
- C) emphasized / would ensure
- D) had emphasized / should ensure
- E) were emphasizing / could ensure

**9. The latest climate models incorporate satellite data to better understand changes occurring --- the polar regions, particularly those related to the melting of sea ice and its impact ----- global ocean circulation patterns.**

- A) on / up
- B) at / onto
- C) over / by
- D) with / to
- E) in / on

**10. To minimize the risk of equipment malfunction --- -the Mars rover mission, engineers tested every mechanical component repeatedly, focusing especially on its resistance ----- dust, temperature shifts, and radiation.**

- A) from / into
- B) during / to
- C) for / through
- D) over / behind
- E) at / across

**11. The discovery of antibiotic-resistant bacteria in remote ecosystems raised serious concerns ---- the unintended spread of laboratory strains, which may have occurred ----- contamination during field research.**

- A) with / along
- B) about / through
- C) into / behind
- D) by / throughout
- E) under / over

12. Gene editing through CRISPR technology can revolutionize agriculture, but such innovations should only be implemented ----- long-term ecological impacts are carefully assessed and transparent regulations are enforced.
- A) in case  
B) as though  
C) despite the fact that  
D) on condition that  
E) just as
13. ----- various ecosystems exhibit different responses to climate change, global conservation strategies must be tailored to the unique vulnerabilities of each region.
- A) As though  
B) Since  
C) Whereas  
D) Until  
E) Whether
14. ----- industrial emissions are not drastically reduced within the next two decades, scientists warn that irreversible environmental tipping points may be crossed.
- A) Although  
B) So that  
C) Unless  
D) If  
E) In order that
15. Modern chemistry courses increasingly incorporate digital simulations; -----, students can explore reaction rates under different conditions without handling hazardous materials.
- A) for example  
B) nevertheless  
C) by comparison  
D) meanwhile  
E) instead
16. ----- wind turbines generate electricity by harnessing kinetic energy from the air, they produce no direct carbon emissions and contribute to a cleaner energy grid.
- A) Just as  
B) In case  
C) Because  
D) As if  
E) So that
17. ----- the promise of advanced robotics in elderly care, current models still lack the emotional intelligence and decision-making capacity required for independent caregiving.
- A) Instead of  
B) Despite  
C) Similar to  
D) Besides  
E) As a result of

18.

----- relying on non-renewable materials, some manufacturers are now designing biodegradable packaging to reduce plastic waste.

- A) Rather than
- B) Prior to
- C) As a consequence of
- D) In accordance with
- E) Except for

19. In scientific research, especially in climate modeling, ----- accurate the input data is, ----- reliable the projections of future conditions tend to be, highlighting the importance of precise measurement techniques.

- A) such / that
- B) as / as
- C) either / or
- D) the more / the more
- E) so / that

20. Marie Curie, ----- pioneering work in radioactivity earned her two Nobel Prizes in different sciences, remains one of the most influential figures in the history of physics and chemistry.

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