

1. The breakthrough in quantum computing has ---- a new paradigm, offering unprecedented computational capability that could revolutionize fields ranging from cryptography to complex system simulations.

- A) appreciated
- B) eliminated
- C) introduced
- D) limited
- E) reduced

2. The research team's findings were published in a prestigious journal ---- to advancing knowledge in the field of artificial intelligence and its applications in various industries.

- A) printed
- B) dedicated
- C) accustomed
- D) indifferent
- E) published

3. The rapid development of biotechnology has led to significant advancements in genetic manipulation techniques, ---- more precise modifications of DNA sequences to treat genetic disorders.

- A) allowing for
- B) resulting from
- C) depending on
- D) extracting from
- E) taking off

4. The study's methodology included the use of advanced statistical models ---- large datasets, ensuring that the conclusions ---- were both reliable and statistically significant.

- A) analyzing / drawing
- B) analyze / draw
- C) to be analyzing / to be drawn
- D) to analyze / drawn
- E) analyzed / to draw

5. The ethical implications of artificial intelligence are a major topic of debate, particularly ---- issues related to privacy, autonomy, and the potential for unintended consequences.

- A) for the sake of
- B) prior to
- C) like
- D) as for
- E) concerning

6. The development of renewable energy technologies is driven by the need to address global environmental challenges, ---- climate change and the depletion of natural resources.

- A) as though
- B) as such
- C) such as
- D) but for
- E) as in

7. In the field of neuroscience, researchers ---- the dynamics of neural networks to understand how complex behaviors and cognitive functions ---- the interactions of neurons.

- A) are investigating / emerge from
- B) were investigating / emerged from
- C) investigated / have emerged from
- D) have investigated / have emerged from
- E) investigate / are emerging from

8. The successful ---- of 5G technology represents a major advancement in telecommunications infrastructure, enabling faster and more reliable internet connections for a wide range of applications.

- A) elimination
- B) commitment
- C) construction
- D) detriment
- E) deployment

9. The conference ---- recent advancements in nanotechnology, emphasizing its potential ---- new materials with extraordinary physical properties, such as strength, flexibility, and conductivity.

- A) highlights / to be created
- B) has highlighted / created
- C) had highlighted / to have created
- D) will highlight / creating
- E) highlighted / to create

10. The ethical controversies surrounding gene editing technologies like CRISPR raise concerns about potential misuse and long-term impacts on - ---- human genetics----- biodiversity.

- A) as / as
- B) not only / but also
- C) so / that
- D) the more / the more
- E) no sooner / than