

1-6: For these questions, choose the best word or expression to fill the space.

1. **With more than 9,000 high-rise buildings, most visitors assume that Hong Kong is an urban concrete jungle; however, 40% of the region's land is --- as country parks, offering a stunning array of open-air experiences – especially hiking.**
- A) comprehended       B) designated
- C) encouraged      D) recommended
- E) measured

2. Arbitrage is a financial or economic strategy that involves exploiting price differences for the same asset, security, or -  
--- in different markets or locations.

- A) allegation      B) capability  
C) dilemma      ✓ D) commodity  
E) fortune

3. Astronomers have spotted the highest-energy outburst of light from a pulsar ever seen, and the discovery could indicate new physics around these — dense, rapidly spinning dead stars.

- A) ultimately
- B) untimely
- C) precisely wh-how
- ✓ E) incredibly

— ly      ✓  
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4. The proportion of older Americans living below the official poverty level fell drastically through the 1960s and 1970s, thanks to largely because of ---- expansions and increases in Social Security. + in during

- A) dreadful  
B) obsolete **absolute mutlak**  
C) substantial  
D) inconsequential  
E) negligible  
**eski**  
**trivial**

I D K

5. Throughout history, eclipses, though one of the favourite pastimes for science enthusiasts today, have been seen as a/an ---- of the natural order, if not a total catastrophe, and many groups have even believed them to be bad omens.

- A) elaboration  
B)  disruption  
C) foundation  
D) infrastructure  
E) initiation

6. A Costa Rican pirate spider --- the family name with its dexterity in planning and execution of traps as it tricks closely related orb weaver spiders into walking the plank, right to their doom.

- ✓ A) lives up to      B) gets away with  
C) falls back on      D) puts up with  
E) looks up to

admire

ability  
Mahir

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7-16: For these questions, choose the best word(s) or expression(s) to fill the space(s).

The fact that

7. (C) If the Ancient Greeks ---- high-achievers, it has much to do with the fact that they ---- on the shoulders of giant civilisations that came before them, such as the Mycenaeans, whose story was told by Homer in the epic stories the *Iliad* and *Odyssey*.

A) had been / would stand

B) used to be / would have stood

✓ ✓ C) were / stood ✓

D) are / stand

E) have been / will stand

if there had  
been  
type 3

8. The **unprecedented levels** of air **pollution in our cities at present** --- by **decades of industrial emissions**, and **had there been more stringent regulations in place, they** --- this environmental crisis.

- A) ~~can be caused~~ / would have prevented
- B) were to be caused / would prevent
- C) **may have been caused** / must have prevented
- D) **must have been caused** / had to prevent
- E) **might have been caused** / could have prevented

were caused by  
have been caused by 100%



9. Pandora's jar, or Pandora's box as portrayed in the 16th century thanks to Renaissance humanist Erasmus, is believed

---- all the ills of the world, which ---- when she opened the jar.

- A) to contain / have been freed
- B) containing / are freed
- C) contained / would have been freed
- D) having contained / had been freed
- E) to have contained / were freed

✓

10. Students meeting specific criteria, **such as** those with documented disabilities, may be **exempt** ---- certain standardized testing requirements ----**outlined** in the educational policy, **allowing for** individualized accommodations to ensure **equitable assessment** practices. <sup>vs</sup>

A) off / beyond

B) of / by

✓ from / as <sup>vs</sup>

D) away / with

E) onto / on

gibi

11. Despite a myriad of protections built ---- banking systems across the world, bank runs – when hordes of depositors sense danger and clamor to remove their money ---- banks – still happen.

A) by / between ✓

B) in / among ✓

C) over / across ✓

D) into / from ✓

E) with / during

12. --- people often picture DNA sitting safe and snug inside of cells, the truth is that particles of the genetic material are loose all over the environment.  
assume/view

- A) Since                      B) When  
C) As                         D) While  
E) Until

13. **Some types of** exploding fruits, such as the cucumber, **utilize** built-up water pressure to expel the seeds, ---- **others,** such as certain violets, **employ the** tension from the drying fruits to fling their offspring away.

- A) until                      B) since  
C) even when                D) **whereas**  
E) unless

14. Most adult humans around the world are lactose-intolerant, meaning that, --- they were weaned from breast milk, they gradually lost the ability to consume animal milk and certain other dairy products without having digestive problems.

- A) although  
B) once  
C) given that  
D) because  
E) unless

15. Our identities are important ---- because they shape our belief in who we are, ---- because they impact how others treat us.

- ✓ A) not only / but also    B) as / as  
C) such / that            D) either / or  
E) whether / or

M.K.

16. The geological formation and landscape of White Sands National Park in New Mexico exhibit characteristics ---- those found in other gypsum dunefields worldwide, providing a valuable comparative framework for studying aeolian processes and their environmental implications.

- A) despite  
B) thanks to  
C) similar to  
D) regardless of  
E) with a view to



17-21: For these questions, choose the best word or expression to fill the spaces in the passage.

Solomon Northup's is a story of (17) ---- misfortune and resilience. (18) ---- he was born a free person in New York about 1808, Northup was kidnapped and sold into slavery in 1841. He was owned by a series of sadistic masters until he was able to find a way to send letters to his family in 1852. His freedom was legally reinstated in 1853, and Northup went on to co-write a memoir, *Twelve Years a Slave* that sold like hotcakes. He became a national celebrity and lectured (19) ---- the country. His kidnapers were eventually indicted, but the charges (20) ---- in 1857. Northup then promptly retreated from the public eye. It is likely that he joined the Underground Railroad, (21) ---- the date and circumstances of his death are unknown.

17.

A) uncertainC) fastidiousE) perilousB) meticulousD) tremendous

huge

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18.

- A) Though  
C) Whereas  
E) As soon as

- B) Since  
D) Until

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19.

- A) below  
C) amid  
E) above

- B) throughout  
D) among

in  
cross

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20.

- A) have been dismissed  
B) had been dismissed  
C) were dismissed  
D) were being dismissed  
E) are dismissed

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21.

A) or

B) so

C) and

D) otherwise

E) but

22-26: For these questions, choose the best word or expression to fill the spaces in the passage.

Chronic wasting disease is contagious and relentless. There is no cure, no way to test living animals and (22) ---- infections are introduced into wild populations, there is no realistic way to stop them from spreading. An infected deer typically will survive for 18 months to two years. There is a long (23) ---- period in which they don't usually show symptoms, but as the disease progresses, the animals will begin to appear listless and lose weight. In the final six weeks or so they can seem aimless and oblivious (24) ---- danger, become thin and salivate. They often stand with their legs spread like sawhorses, as if (25) ---- not to topple over. These so-called "zombie deer" often get media attention, but as the disease progresses in the wild, deer become more susceptible to other diseases, less able to protect themselves, more prone to predation and more apt to be hit by cars. (26) ----, they rarely live long enough to become zombies.

22.

- A) while  
C) although  
E) before
- B) as if  
D) when  
if  
once
- Handwritten: X, 2nd, SVO*

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23.

- A) alignment  
C) complement  
E) emergence

✓ B) incubation  
D) deadline

kuluçka

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24.

- A) with  
C) onto  
✓ E) to

- B) over  
D) in



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25.

A) trying

C) tried

E) having tried

B) try

D) to try

SVO,

(as if)

to

(as if)

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they live short.

26.

- A) Even so  
B) For example  
C) In the meantime  
D) Therefore  
E) By the same token

Similarly  
Likewise

27-36: For these questions, choose the best option to complete the given sentence.

27. ---, the amount of global warming **can be limited by reducing** human emissions of heat-trapping gases and soot.

- A) Although Earth's climate has been evolving since the dawn of geologic time
- B) As the concentration of methane at any one time in the atmosphere is only about 1.7 ppm
- C) **While it is definitely impossible stop** global warming in a limited time window
- D) Because the biosphere plays a key role in the flux of energy from the surface to the atmosphere
- E) Since global warming is related to the more general phenomenon of climate change

mk  
28. Although mortality among afflicted infants and children due to cystic fibrosis was high when it was first recognized as a separate disease in 1938, ---.

- ✓ A) more than half of all victims of cystic fibrosis survived into adulthood because of aggressive therapeutic measures by the mid-1980s
- B) the chief symptom of the disease is the production of a thick, sticky mucus that clogs the respiratory tract and the gastrointestinal tract
- C) it is an inherited disorder mainly affecting people of European ancestry, and it is estimated to occur in 1 per 2,500 to 4,500 live births in these populations
- D) the patients experienced severe side effects, including lung inflammation and signs of viral infection
- E) many patients with cystic fibrosis regularly take antibiotics, sometimes in aerosolized form, in order to fight lung infections

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29. Besides making substantial progress in understanding the cosmos, ----.

- A) pre-Greek medicine had been almost entirely confined to religion and ritual
- B) the height of medical science in antiquity was reached late in the Hellenistic period
- C) the apex of Greek science coincided with the rise of Roman power in the Mediterranean
- D) the way the Greeks handled medicinal sciences was also phenomenal
- E) the Greeks went far beyond their predecessors in their knowledge of the human body

30. Because rich deposits of various minerals, coal, and petroleum were discovered in Qaidam basin in Tibet in 1950s, ----.

- A) the basin's role in the history of the Tibetan Plateau's formation have made it a subject of scientific research and study
- B) the once sparsely populated area that belonged to horse breeders turned into an industrial development site
- C) the basin is also home to a variety of wildlife and has cultural significance for the local Tibetan population
- D) the basin is known for its vast salt flats, which are a result of the evaporation of ancient lakes that once existed in the region
- E) the basin is situated primarily within Qinghai Province, and it is one of the country's most significant basins

31. --- as it involves unravelling the complex interplay of genetic predisposition and lifestyle factors and how they interact throughout a person's life.

90+

- A) Nonagenarians and centenarians have long been of intense interest to scientists
- B) The way centenarians handle daily problems is far from extraordinary
- C) Chance probably plays a role at some point in reaching an exceptional age
- D) Centenarian blood tests give invaluable hints of the secrets to longevity
- ✓ E) The pursuit of understanding the secrets behind exceptional longevity is not as straightforward

work  
study  
research

(as) easy (as)  
(it assumed)

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32. Though science-fiction serves as a positive influence on how people view science, ----.

- A) it also helps people think critically about the ethics of science ≠
- B) nearly all sci-fi fans claim that science fiction is just as valuable as any other genre
- C) teachers all around the developed world recommend these books to individual readers
- D) science fiction does not need to include detailed science or outlandish premises to offer valuable ideas
- ✓ E) school libraries across the world rarely hold collections of science-fiction books

=

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33. As **viruses** are **completely dependent** on the cells they infect to supply all the chemical building blocks needed to replicate themselves, ----.

- ✓ A) **they do not have an independent life cycle** like other organisms
- B) a virus hijacks a cell's machinery and turns it into a factory to make hundreds of new viruses
- C) they store their genetic information using RNA instead of DNA
- D) it is generally accepted that they have smaller genomes than cellular genomes
- E) cells, which have their own polymerases, never replicate RNA like viruses do

34. ----, most of the rest washes into waterways, where it creates algae blooms and dead zones that smother aquatic life.

- A) Though using a lot of fertilizers generates greenhouse gases that contribute to climate change
- B) If using an excess of fertilizers really proved to be effective in raising farm production
- C) Whereas most scientists disagree with the fact that fertilizer use is good for the world
- ✓ D) Because only 17% of fertilizers applied is taken up by plants and ultimately consumed as food
- E) While some of the fertilizers are detrimental for the immediate soil that are used for

35. **Despite the fact that humans have been living with cats for thousands of years, ----.**

- A) scientists may have finally discovered exactly how cats produce their iconic purr
- B) scientists still don't quite know how they make purring sounds
- C) scientists have long thought that cat purrs are the result of contracting and relaxing muscles in the vocal folds of the larynx
- D) scientists have found that the organs produced purr-like sounds simply by blowing air through them
- E) purring is a very low-frequency sound for a small animal like a cat to make

==

36. **Given that science and technology are essential and inescapable aspects of our shared civic lives, ----.**

- A) science is still thought to be a boring activity confined to the walls of a dull laboratory
- B) scientists are ~~not~~ aware the role that they undertake upon their graduation from university
- C) the effects of science and technology extend far beyond the confines of the laboratory ✓
- D) the promotion of science as a fun activity belongs only to teachers, which is rather unfair
- E) fostering public engagement in these domains cannot be a priority for informed decision-making and societal progress

educated guess

=====

8-71: For these questions, choose the best rephrased form of the given sentence

68. The Jaintiapur kingdom extended from the province of Sylhet in present-day Bangladesh to the hills of Meghalaya, and their people were believed to have been exceptionally tall and strong, although no official evidence exists.

- A) The Jaintiapur kingdom spanned from the region of Sylhet in what is now Bangladesh to the hills of Meghalaya, and it was commonly believed that the people of this kingdom were unusually tall and robust, but there is no official evidence to support this claim.
- B) The Jaintiapur kingdom, whose people were believed to have been exceptionally tall and strong, spanned from the region of Sylhet in what is now Bangladesh to the hills of Meghalaya, but there is no official evidence as to their existence.
- C) It was a common belief that people who lived in the Jaintiapur kingdom were usually tall and strong, but there is no evidence for their existence in the region that spanned Sylhet in modern-day Bangladesh to the hills of Meghalaya.
- D) Many believed that residents of the Jaintiapur kingdom possessed outstanding height and strength, although there is no evidence supporting their presence in the region, which extended from Sylhet in contemporary Bangladesh to the hills of Meghalaya.
- E) The prevailing notion was that individuals residing in the Jaintiapur kingdom were exceptionally tall and robust, yet there is no evidence confirming their presence in the area extending from Sylhet in present-day Bangladesh to the hills of Meghalaya.

**69. The Gulf Stream is just a small component of the thermohaline circulation – a global conveyor belt of ocean currents that moves oxygen, nutrients, carbon and heat around the planet, while also helping to control sea levels and hurricane activity.**

- A) The Gulf Stream is just a minor part of the thermohaline circulation, a worldwide system of ocean currents moving oxygen, nutrients, carbon, and heat across the Earth; however, though it is not known much, this circulation also plays a role in regulating sea levels and the intensity of hurricanes.
- B) Thermohaline circulation is a worldwide system of ocean currents responsible for transporting oxygen, nutrients, carbon, and heat across the Earth, as well as playing a role in regulating sea levels and the intensity of hurricanes, and the Gulf Stream is only a minor part of it.
- C) The Gulf Stream is merely a tiny element within the thermohaline circulation, which is a worldwide network of ocean currents responsible for transporting oxygen, nutrients, carbon, and heat across the Earth, but the stream also plays a minor role in regulating sea levels and hurricane activity.
- D) Although the Gulf Stream forms just a small part of the thermohaline circulation – a global conveyor belt of ocean currents that is responsible for moving oxygen, nutrients, carbon and heat around the planet, it helps control sea levels and hurricane activity.
- E) The Gulf Stream is a relatively small component of the global thermohaline circulation, which encompasses a network of ocean currents responsible for the distribution of oxygen, nutrients, carbon, and heat around the planet; nevertheless, the Gulf Stream also contributes to the regulation of sea levels and hurricane activity.

**70. Questions about whether Covid leaked from a Chinese laboratory have cast a chill over American virus research, drying up funding for scientists who collect or alter dangerous pathogens.**

- A) Investigations regarding the potential Covid leak from a Chinese laboratory have generated concerns within the realm of American virus research, and this may have translated into a decrease in funding for scientists engaged in the gathering or modification of dangerous pathogens.
- B) The investigation into the possible release of Covid from a Chinese laboratory has generated a sense of anxiety in American virus research circles, potentially resulting in reduced funding for scientists engaged in gathering or altering dangerous pathogens.
- C) As the potential leakage of Covid from a Chinese laboratory is investigated, American virus research has taken a blow both psychologically and financially due to a cut in funding for those who collect or alter dangerous pathogens for their labs.
- D) With the ongoing investigation into the possible Covid leak from a Chinese lab, American virus research is facing both psychological and financial setback because funding has been reduced for scientists engaged in the collection and modification of hazardous pathogens for their laboratories.
- E) Inquiries into the potential leakage of Covid from a Chinese lab have created a sense of unease within American virus research, which has led to a reduction in funding for scientists involved in the collection or modification of hazardous pathogens.

**71. When wildfire smoke turns the air brown and hazy, you might think about heading indoors with the windows closed, but those gases can get into buildings and remain in the walls for weeks.**

- A) When wildfire smoke causes the air to become discoloured and filled with haze, your initial instinct might be to seek shelter indoors with closed windows; however, it is important to note that these gases can infiltrate buildings and stay within their walls for quite a long time.
- B) When wildfire smoke taints the air, causing it to appear brown and hazy, your instinct might be to remain indoors with closed windows; still, it is possible that these harmful gases will infiltrate buildings and linger within the walls for days.
- C) Although it might sound good to get into indoors and close the windows when wildfire smoke turns the air brown and hazy, these smoke-related gases can infiltrate buildings and linger within their walls for weeks.
- D) Upon seeing that wildfire smoke turns the air brown and hazy, your instinct might tell you shut yourself indoors, with windows tightly closed, but it is quite possible that these harmful gases will enter the buildings and remain within walls for a long time.
- E) When you observe the air turning brown and hazy due to wildfire smoke, your immediate inclination may be to seek refuge indoors, keeping the windows tightly shut, yet it is worth considering that these harmful gases can penetrate buildings and linger within the walls for an extended period.



72-75: For these questions, choose the best option to complete the missing part of the passage.

72. Pandora's Box, a mythological artifact in Greek mythology, embodies the consequences of curiosity and the unforeseen ramifications of human actions. According to the myth, Pandora was given a box as a gift but warned never to open it. Overwhelmed by curiosity, she disregarded the caution and unlatched the box, unleashing a torrent of afflictions and misfortunes upon the world. As the lid swung open, diseases, sorrows, and various troubles escaped into the realm of mortals. --- This myth serves as a poignant metaphor, illustrating the duality of human nature and the consequences of unbridled curiosity. It highlights the complexity of human existence, emphasizing the presence of both despair and optimism, urging caution in our pursuit of knowledge and reminding us that even in the darkest moments, hope endures. +
- A) When the box was opened, the world began to suffer from misery as well as these catastrophes.
- B) However, amidst the chaos, one element remained inside the box: hope.
- C) Nevertheless, the box contained not hope, but a lingering sense of uncertainty and despair.
- D) Some, for example, use the metaphor of Pandora about both positive and negative aspects.
- E) Therefore, it is one of the best stories illustrating the consequences of curiosity.

73. College students learn more calculus in an active learning course in which students solve problems during class than in a traditional lecture-based course, according to a peer-reviewed study. Researchers also found that college students better understood complex calculus concepts and earned better grades in the active learning course. The findings held across racial and ethnic groups, genders and college majors, and for both first-time college and transfer students – thus, promoting success for all students. ---- If you apply that rate to the current 300,000 students taking calculus each year in the U.S., it could mean an additional 33,000 pass their class.

- ✓ A) Students in the active learning course had an associated 11% higher pass rate.
- B) The study was done in three semesters and involved 811 students at a public university.
- C) The study evaluated the impact of an engagement-focused active learning calculus teaching method.
- D) The active learning intervention promoted development of calculus understanding during class.
- E) An active learning approach allows students to work together to solve problems and explain ideas to each other.

74. **The Iliad and the Odyssey**, attributed to the ancient Greek poet Homer, stand as epic cornerstones of Western literature, chronicling heroic **feats** and the complexities of human nature. **The Iliad** delves into the Trojan War, focusing on the wrath of Achilles and the tragic consequences of pride, honor, and fate. Through battles and divine interventions, it explores themes of mortality and the cost of glory. **In contrast, the Odyssey** embarks on the adventurous journey of Odysseus as he navigates **perilous** seas and **confronts** mythical creatures, showcasing his wit and cunning. **This epic** portrays the longing for home and the challenges of endurance and perseverance. **Their enduring relevance** lies in their exploration of honor, heroism, and the intricate tapestry of human existence that continues to resonate across generations.

- KPV
- A) The Iliad focuses on the rage of Achilles during the Trojan War, revealing the clash of honor, fate, and mortality amidst the battlefield's chaos.
- B) The Odyssey narrates Odysseus's decade-long odyssey filled with mythical challenges, showcasing his resilience and intelligence as he endeavors to return home to Ithaca.
- C) Homer is often considered the father of Western literature and remains an enigmatic figure.
- D) **Both epics** encapsulate the essence of Greek culture, intertwining mortal struggles with divine intervention, while portraying the virtues and flaws of humanity.
- E) The Odyssey intricately weaves the odyssey of Odysseus through mythical landscapes, showcasing the human spirit's endurance.

75. **"V" can represent a multitude of concepts across various domains.** In mathematics, "V" often symbolizes the Roman numeral for five or denotes vectors in equations. In physics, it can represent velocity, specifically in equations related to speed and direction. In astronomy, "V" signifies the magnitude of a star's brightness. Linguistically, "V" serves as a consonant in the English alphabet, playing a vital role in forming words and sounds. Additionally, in popular culture, "V" holds symbolic significance, representing victory or peace when displayed as a hand gesture. ----

- A) The letter "V" also holds historical significance, notably as the initial of the ancient Roman numeral system, symbolizing five.
- B) In fashion and design, in contrast, "V" often represents the neckline or silhouette of garments, influencing trends and styles.
- ✓ C) "V" is, all in all, a versatile symbol, finding its way into diverse contexts, ranging from science and mathematics to language, culture, and symbolism, embodying different meanings and interpretations.
- D) Moreover, in this realm of technology, "V" is integral to designating versions, commonly used in software updates or product releases to denote different stages or editions.
- E) It features prominently in words denoting change or transformation, as seen in terms like "evolve," "revolve," or "involve," reflecting its association with action and progression.

the realm

M.K.

76-80: For these questions, choose the irrelevant sentence in the passage.

76. (I) In one of the first widely read novels about time-travel, published in 1889, Mark Twain wrote about a man whose life was saved by an eclipse. (II) In Twain's story, *A Connecticut Yankee in King Arthur's Court*, the protagonist Hank Morgan is knocked unconscious and wakes up in 6th-Century England, but he soon finds himself in trouble, and is sentenced to be burned at the stake. (III) It is a fictional story, but it may have been inspired by real-world events and has references to natural phenomena like eclipses. (IV) Luckily, his execution is scheduled for the same day as an eclipse. (V) Knowing it is coming up, Morgan tricks the King and his people into believing he controls the Sun and Moon, and his foreknowledge wins him a pardon.

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

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77. (I) Scientists in China are building the world's largest "ghost particle" detector 3,500 meters beneath the surface of the ocean. (II) The Tropical Deep-sea Neutrino Telescope (TRIDENT) – called Hai ling or "Ocean Bell" in Chinese – will be anchored to the seabed of the Western Pacific Ocean. (III) Neutrinos pass completely unimpeded through most matter, including the entirety of our planet, but they do occasionally interact with water molecules. (IV) Upon completion in 2030, it will scan for rare flashes of light made by elusive particles as they briefly become tangible in the ocean depths. (V) As it will be set up near the equator, it will be able to receive neutrinos coming from all directions with the rotation of the Earth, enabling all-sky observation without any blind spots.

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



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C ✓  
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A ✓  
A ✓

78. (I) A team of scientists is proposing a new explanation for some cases of long Covid, based on their findings that serotonin levels were lower in people with the complex condition. (II) In their study, researchers at the University of Pennsylvania suggest that serotonin reduction is triggered by remnants of the virus lingering in the gut. (III) Depleted serotonin could especially explain memory problems and some neurological and cognitive symptoms of long Covid, they say. (IV) There are warnings, though –as the study about serotonin was not large, which means the findings need to be confirmed with other research. (V) The research could point the way toward possible treatments, including medications that boost serotonin.

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

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79. (I) **Abolitionism**, also called abolition movement, (c. **1783–1888**), in western Europe and the Americas, **is the movement** chiefly responsible for **creating the emotional climate necessary for ending the transatlantic slave trade** and chattel slavery. (II) The **push to abolish slavery in the United States proved more difficult** because slavery **was driven by domestic** rather than **colonial enterprises** and was **the social and economic base of the plantations of 11 Southern states**. (III) The **intensification of slavery as a system, which followed Portuguese trafficking of enslaved Africans beginning in the 15th century, was driven by the European colonies in North America, South America, and the West Indies, where the plantation economy generated an immense demand for low-cost labour**. (IV) **Between the 16th and 19th centuries an estimated total of 12 million enslaved Africans were forcibly transported to the Americas**. (V) The **brutality of slavery, made increasingly visible by the scale of its practice, sparked a reaction that insisted on its abolition altogether**.

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

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80. (I) In order to reduce fatalities and to protect villages and roads, people attempt to predict and prevent avalanches. (II) Accurate avalanche prediction requires an experienced avalanche forecaster who often works both in the field to gather snowpack information and in the office with sophisticated tools such as remotely accessed weather data, detailed historical weather and avalanche databases, weather models, and avalanche-forecasting models. (III) Avalanche forecasters combine their historical knowledge of past conditions with their knowledge of the affected terrain, current weather, and current snowpack conditions to predict when and where avalanches are most likely to occur. (IV) Though expensive, these defensive measures are common throughout the Alps, where numerous villages are found in areas known for dangerous avalanches. (V) Such forecasting work typically takes place along mountain highways, adjacent to potentially affected villages, at ski areas, and in terrain heavily used for backcountry skiing and snowmobiling.

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

