30 HARDEST INFERENCE QUESTIONS FROM DSAT

WITH LOVE, FOR SAT COMMUNITY

GET MORE QUESTIONS

Arthurian legends (tales related to the character of King Arthur) derive from many often contradictory sources, such as Annales Cambriae, composed around 970, and Tom a Lincoln from around 1607. Sir Thomas Malory's 15th-century text Le Morte d'Arthur was an attempt to compile these stories into a coherent narrative. Many of Malory's sources derive from Geoffrey of Monmouth's History of the Kings of Britain, written in the 1130s. While neither History nor any works that predate it mention Arthur's famous Round Table at which his knights assembled, Le Morte d'Arthur does, suggesting that ___

Which choice most logically completes the text?

A. When a version of an Arthurian legend contradicted the version in History, Malory preferred to include Geoffrey of Monmouth's version in Le Morte d'Arthur.

B. Le Morte d'Arthur is more historically accurate than History, because Tom a Lincoln had not been written when Geoffrey of Monmouth was writing his work.

C. Geoffrey of Monmouth's accounts of Arthurian legends in History are more similar overall in content to the accounts in Tom a Lincoln than they are to the accounts in Le Morte d'Arthur.

D. Malory encountered the Round Table in a source that Geoffrey of Monmouth was not familiar with when writing his History.

@DSATUZ

Prolonged exposure to anthropogenic noise (sounds from human sources like traffic or mining) can affect animals, as Kirsty Elizabeth McLaughlin and Hansjoerg P. Kunc found in a 2015 study of zebra cichlids. Researchers conducted a meta-analysis of studies of how such noise affects animals and found that, for every study, relevant traits or behaviors of the animals were observably different between the exposed group and the otherwise similar but unexposed group. Although, on average, studies of fish showed larger differences than studies of birds did, for every class of animals examined, there were individual studies showing differences well above the average for fish. Therefore, the results of the meta-analysis suggest that ___

Which choice most logically completes the text?

A. The studies in the meta-analysis that examined fish were more likely than those that examined birds to specify whether the observed effects were detrimental.

B. The difference found in the study conducted by Kirsty Elizabeth McLaughlin and Hansjoerg P. Kunc was likely larger than the average difference for studies of zebra cichlids included in the meta-analysis.

C. Some studies of birds found larger effects of exposure to anthropogenic noise than some studies of fish did.

D. The differences that studies attribute to exposure to anthropogenic noise are likely to be more pronounced for birds than they are for fish.

@DSATUZ

Microbial fuel cells (MFCS) capitalize on the ability of some species of bacteria to metabolize metal, liberating electrons. The bacteria form a dense biofilm on the surface of an electron-collecting anode, but moving the electrons from the bacterial cytoplasm to an external electrode requires that the electrons pass through a series of inefficient oxidation-reduction (redox) reactions. Accordingly, MFC power output rarely exceeds a density of 0.30 milliwatts per square centimeter (mW/cm2). In an experiment, researchers added silver nanoparticles to carbon paper covering the anode in an MFC. The resulting power density was 0.66 mW/cm2. Since metals such as silver exhibit high electrical conductivity, the researchers hypothesized that.

Which choice most logically completes the text?

A. silver nanoparticles may increase the metabolic processes of the bacteria, thereby increasing the number of free electrons available to transfer to the electrode.

B. as the density of the biofilm increases, the series of redox reactions may accelerate independent of the presence of the silver nanoparticles.

C. silver nanoparticles may allow electrons to bypass the series of redox reactions and transfer directly to the electrode.

D. electrons may be conducted directly to the electrode before the silver nanoparticles catalyze the redox reactions.

@DSAT

The ratio of methane to other atmospheric constituents-represented by a measure called the methane mole fraction-influences a variety of meteorological phenomena, notably precipitation and humidity. For Titan, Saturn's largest moon, the observational data that exist are too sparse and discrepant to fully constrain the range of the methane mole fraction at various atmospheric levels. Juan Lora and colleagues point out that outputs of the IPSI. atmospheric model of Titan, which track closely to observations in some respects, reflect how the model's developers responded to this challenge: by prescribing a uniform methane mole fraction for the lowest level of the atmosphere. It is therefore important to note that

Which choice most logically completes the text?

A. some disagreements between the model's simulations of Titan's precipitation and humidity and the moon's actual precipitation and humidity are to be expected.

B. even though the model's outputs sometimes agree with observational data, Titan's real methane mole fraction is likely higher than the methane mole fraction used in the model.

C. further observations of Titan may clarify the moon's methane mole fraction sufficiently for the model to employ a single value rather than a range.

D. inconsistencies across the model's simulations of Titan's precipitation and humidity could be attributable to variations in the moon's methane mole fraction.

@DSAT

Consumers increasingly expect that goods they purchase online will be delivered rapidly, even as soon as the day of purchase. Although efficiencies in long-distance transport of parcels have greatly improved delivery times, last mile logistics (the final step in delivery to consumers) present a bottleneck for delivery companies. Time pressure resulting from consumer expectations is not the only challenge; other obstacles, such as complex and inefficient delivery routes, persist. While innovations to mitigate these challenges have been emerging the use of autonomous delivery robots, for instance-success has been constrained due to the additional complications that arise (e.g., robots travel relatively slowly since they must navigate many ground-level obstacles). Consequently____

Which choice most logically completes the text?

A. the use of autonomous delivery robots may enable delivery companies to meet consumers' expectations now but likely is not viable as a permanent solution.

B. innovations in last-mile logistics seem poised to increase consumers' expectations for rapid delivery.

C. delivery companies should invest more funds in proven long-distance transport technologies than in untested last-mile solutions.

D. in the near term, delivery companies are unlikely to overcome the impediments associated with last-mile logistics.

@DSAT

Many studies have found a positive association between levels of dissolved organic carbon and mercury in bodies of fresh water undisturbed by human activity. But Stéphane Guédron, Delphine Tisserand, and colleagues did not find this correlation in an examination of freshwater bodies impacted by wastewater, leading some scientists to hypothesize that the association could be particular to undisturbed waters. However, Ida Tjerngren and colleagues carried out a study on freshwater bodies disturbed by urban development that showed similar results to the studies on undisturbed waters, suggesting_____

Which choice most logically completes the text?

A. the effects of wastewater on the association between levels of dissolved organic carbon and mercury should not be taken as indicative of the effects of every type of human disturbance.

B. Guédron, Tisserand, and colleagues' study used different methods to measure the concentration of mercury in fresh water than Tjerngren and colleagues' study did.

C. disturbances linked to wastewater affect significantly more bodies of fresh water than disturbances linked to urban development do.

D. levels of dissolved organic carbon and mercury are both much higher in bodies of fresh water impacted by wastewater than they are in bodies of fresh water disturbed by urban development.

@DSATUZ

Like many other genera of wild bees, bumblebees have in recent decades experienced population collapse caused by, among other factors, habitat destruction and climate variation. Bumblebees are also one of the most researched bee genera, second only to honeybees. As a result, ecologists have gained much of their insight about wild bee declines from bumblebees. In a 2021 paper, zoologist Guillaume Ghisbain notes that bumblebees are among the relatively few wild-bee genera that display social behaviors and dietary generalism (ability to obtain nectar and pollen from a diversity of plant species). two traits that are associated with increased resilience to some specific environmental changes. Ghisbain therefore contends that___

Which choice most logically completes the text?

A. because bumblebees and other bees with generalist diets are less negatively affected by environmental stress than bees with specialized diets are, they are less likely to experience major population changes in the future than bees with specialized diets are.

B. although bumblebees have been more extensively studied than most wild bees, researchers should not use bumblebees to draw conclusions about the decline of other wild bees, even ones with feeding patterns and levels of sociability that are similar to those of bumblebees.

C. although bumblebees and many other wild bees have experienced similar population declines in the past, compared with other wild bees, bumblebees are likely at greater risk of being harmed by climate variation than by habitat destruction.

D. because the responses of bumblebees and other wild bees to environmental threats are not always comparable, researchers need to exercise caution when extrapolating information about wild bee population declines from bumblebees.

@DSATUZ

The National Environmental Policy Act (NEPA) requires US federal agencies to assess environmental effects of potential actions, such as building highways. While many NEPA reviews require public comment, categorical exclusions (CES) allow quick reviews with no public comment for actions that will minimally affect the environment. In 2020 the rule governing CEs was revised: before, CES could be granted for actions that "do not individually or cumulatively have a significant effect on the human environment," but the revised rule allowed CES if actions "normally do not have a significant effect on the human environment." Environmentalists found this revision to be potentially detrimental because____

Which choice most logically completes the text?

A. the increasing need to build new highways and rehabilitate older highways in the US incentivizes agencies to grant CES after 2020 for reasons that would not have been considered valid prior to 2020.

B. the 2020 relaxation of the rule regarding CES would permit more exclusions, resulting in more reviews of actions by federal agencies and a paradoxically slower review process.

C. The rule that governed CEs before 2020 allowed expedited reviews of actions that might have significant effects on the environment if those effects were believed to be rare, while the 2020 revision of the rule subjected such actions to slower reviews.

D. The 2020 revision of the rule governing CEs would allow expedited reviews of actions that had a minimal environmental effect when considered on their own but a significant effect when considered together.

@DSATUZ

The compositional strategy of Untitled, a 1955 work by Cherokee artist Edna Massey, is far more closely aligned with Abstract Expressionism — a mid-twentieth-century school of painting dominated by European American artists — than with traditionally abstract forms of Indigenous art, such as beadwork. Few viewers would infer from the stylistic attributes of Untitled that Massey was Indigenous. In this respect, the work typifies Indigenous painters' forays into abstraction during the period. In contrast, the contemporary Caddo artist Chad "Nish" Earles assembles abstract compositions out of motifs common in the traditional ceramics and graphic art of his tribe. Thus in Earles's work, abstraction has the effect of _____

Which choice most logically completes the text?

A. rendering Indigenous identity more legible than it is in Untitled.

B. asserting the Indigenous origins of motifs associated with Abstract Expressionism.

C. challenging the dominance of European American artists within Abstract Expressionism.

D. reconciling Indigenous and European American influences that coexist uneasily in Untitled.

@DSATUZ

Archaeologists assume that when a major demographic shift interrupts the intergenerational transmission of expertise, this manifests in the archaeological record in the form of simultaneous reductions in the complexity of multiple specialized crafting traditions. Inventories of excavation sites from the Alazani River valley and nearby areas dating from 4000 to 500 BCE show a steep drop occurring around 1500 BCE in the number of objects featuring gold filigree, an advanced technique in which fine threads of gold are arranged in intricate patterns. The inventories also indicate that advanced copper-alloy metallurgy and most other specialized crafting traditions continued to flourish during this period, a finding suggesting that _____

Which choice most logically completes the text?

A. disruptions around 1500 BCE in the utilization of gold filigree likely occurred in the context of demographic continuity among peoples of the Alazani River valley.

B. a sudden simultaneous decline in artifacts from multiple specialized crafting traditions is less likely than previously assumed to indicate that the transmission of expertise was disrupted by demographic changes.

C. peoples in the Alazani River valley continued to uphold multiple specialized crafting traditions, including goldsmithing and copper-alloy metallurgy, even as demographic shifts occurred.

D. cross-cultural transmission between distinct demographic groups in the Alazani River valley likely explains the expansion of copper-alloy metallurgy beginning around 1500 BCE.

@DSAT UZ

To address the susceptibility of materials used in components of high-performance machinery, such as aircraft engines, to creep (deformation that is induced by persistent mechanical stress and that often occurs at elevated temperatures), materials researchers have developed silicon carbide (SiC) fibers for producing aerospace composites. Testing the thermomechanical properties of several commercially available SiC fibers, Ramakrishna T. Bhatt et al. round that in comparison with two polymer-derived Sic abers, a nitrogen treated SiC fiber exhibited a lower minimum creep rate, a measure of the rate at which a stress-exposed material deforms at a constant temperature and uniaxial load. The finding suggests that___.

Which choice most logically completes the text?

A. unlike the two polymer-derived SiC fibers, the nitrogen-treatedSiC fiber can substantially inhibit creep, provided that temperaturesand loads are consistent

B. aerospace composites containing the nitrogen-treated SiC fibermay have the ability to withstand mechanical stress for a longerperiod of time than can aerospace composites containing either ofthe two polymer-derived SiC fibers.

C. the two polymer-derived SiC fibers likely hold similar potential forreducing the creep resistance of materials exposed to stress andelevated temperatures, thus prolonging the life span of aerospacemachinery.

D. composites based on the two polymer-derived SiC fibers havechemical properties that may improve the mechanical and thermalstability of aerospace equipment to a greater extent than docomposites based on the nitrogen-treated SiC fiber

@DSATUZ

The many editions of James Jovce's 1922 novel Ulvsses are not textually identical. and scholars debate which versions reflect Joyces authorial intent. One no longer widely read edition is the 1984 "critical and synoptic edition" edited by Hans Walter Gabler, which followed French and German editorial theories rather than editorial traditions of the United States and United Kingdom and which was later found to have introduced errors due to Gabler's choice to consult facsimile manuscripts rather than using only originals. However, few Joyce scholars worldwide had expertise in such textul issues, and most of those who did worked on the edition with Gabler. So. it is unsurorising that initia scholarly reviews of the 1984 edition were mostly___.

Which choice most logically completes the text?

A. positive, since Ulysses is a novel in English and the 1984 edition would therefore be more widely reviewed in United States and United Kingdom publications than in French and German publications.

B. negative, since an scholar with expertise in editorial theories of the United States and United kingdom as well as French and German editonal theones most likelv worked with Gabler on the 1984 edition and would therefore not review it.

C. negative. since those Jovce scholars with the necessary expertise to write a review of the 1984 editior would be aware that lacsimile manuscripts cannot be produced with a high enough tidelity to the original to ensure that relying on them will not introduce editorial errors.

D. positive. since scholars who reviewed the 1984 edition wereunaffiliated with its production and were mostlv either Jovcespecialists who were largely untamiliar with editorial theories andpractices or specialists in such theories and practices who wereinsufficiently familiar with Joyce

@DSAT UZ

Chelsea Wood et al. tracked temperature-driven changes in the abundance of Podocotyle sp . (a complex life cycle parasite, or CLP, that requires three host species throughout its life cycle), Bomolochus bellones (a directly transmitted parasite, which requires only one host species), and 83 other parasite taxa found on eight fish species. CLPs are transmitted when an infected host is ingested by an individual of another species, typically shielding CLPs from the external environment, whereas directly transmitted parasites are exposed to external conditions during transmission. However, Wood et al. found that three-host CLP abundance decreased as sea temperatures rose, whereas directly transmitted parasite abundance was largely stable, suggesting that ___.

Which choice most logically completes the text?

A. directly transmitted parasites identified in the study were more likely to use transmission strategies that shield them from warming temperatures than were three-host CLPs.

B. any advantages that the transmission strategy used by three-host CLPs may have conferred did not completely offset the negative effects of other temperature-driven factors on CLP abundance.

C. CLPs primarily transmitted by ingestion were less dependent on host species adversely affected by warming temperatures than were CLPs that use other transmission strategies.

D. as the number of host species involved in a parasite's transmission increases, the parasite is better protected against rising temperatures.

@DSAT UZ

Archaeologists assume that when a major demographic shift interrupts the intergenerational transmission of expertise, this manifests in the archaeological record in the form of simultaneous reductions in the complexity of multiple specialized crafting traditions. Inventories of excavation sites from the Alazani River valley and nearby areas dating from 4000 to 500 BCE show a steep drop occurring around 1500 BCE in the number of objects featuring gold filigree, an advanced technique in which fine threads of gold are arranged in intricate patterns. The inventories also indicate that advanced copper-alloy metallurgy and most other specialized crafting traditions continued to flourish during this period, a finding suggesting that _____

Which choice most logically completes the text?

A. disruptions around 1500 BCE in the utilization of gold filigree likely occurred in the context of demographic continuity among peoples of the Alazani River valley.

B. a sudden simultaneous decline in artifacts from multiple specialized crafting traditions is less likely than previously assumed to indicate that the transmission of expertise was disrupted by demographic changes.

C. peoples in the Alazani River valley continued to uphold multiple specialized crafting traditions, including goldsmithing and copper-alloy metallurgy, even as demographic shifts occurred.

D. cross-cultural transmission between distinct demographic groups in the Alazani River valley likely explains the expansion of copper-alloy metallurgy beginning around 1500 BCE.

@DSATUZ

Western honeybees (Apis mellifera) are social insects that live inside rigid colonial nests made from wax, which can make it difficult to observe bee behavior within the colony. Bees typically form colonies with thousands to tens of thousands of bees, the weight of which would seem to place immense strain on the nest structure. Using an x-ray machine, researchers at CU Boulder have observed that swarms of A. mellifera inside the nest will form pyramids of bees, with larger numbers of bees at the base of the pyramid and fewer bees in each level as you move up the swarm. These researchers therefore imply that

_____

Which choice most logically completes the text?

A the pyramids formed by A. mellifera swarms may reduce strain on the nest structure.

B any individual A. mellifera bee can be in danger of suffocation by the rest of the bee swarm.

C improving the numbers of A. mellifera requires Western intervention.

D colonial nests enable A. mellifera to produce high quantities of wax.

@DSATUZ

Scientists recently created a model to predict how shorter winters will affect future mammal population sizes in US national forests. Unfortunately, when the model is applied to large forests, its predictions for large-mammal populations are too high, and when applied to small forests, its predictions for small-mammal populations are too high. Tuskegee National Forest in Alabama is a small forest, covering less than 100,000 acres. If used to evaluate the effect of shorter winters on this forest in ten years, the model would likely therefore

_____

Which choice most logically completes the text?

A. exaggerate the effect of shorter winters on large mammals.

B. reflect factors affecting small mammals other than shorter winters.

C. overestimate the actual population sizes of small mammals.

D. ignore the predator-prey relationships between large and small mammals.

@DSATUZ

Data collected by the Mars rover Curiosity at the Gale Crater's Murray Formation are suggestive of hydrological deposition of sediment in the distant past. To characterize the nature of the depositional environment, Frances Rivera-Hernández et al. analyzed the grain size of Murray Formation sediment, finding that although there are intervals of coarse grains, most of the sediment consists of fine grains that show signs of cracking due to episodic desiccation. Rivera-Hernández et al. concluded that the coarse grains are sandstone, which tends to be deposited by flowing water, whereas the fine grains are mudstone, which is slowly deposited by settling out of suspension in low-flow water, leading the researchers to posit that _____

Which choice most logically completes the text?

A. a lake existed at the Murray Formation for a prolonged period, though the lake occasionally experienced drying and there were periods in which one or more streams were present.

B. a stream-fed lake was present at the Murray Formation for an extended period, and although the streams experienced occasional drying, the lake did not.

C. one or more streams existed at the Murray Formation for an extended period until being replaced by a lake that persisted for only a brief period before permanently drying.

D. although the area of the Murray Formation experienced a prolonged period of dryness that prevented a lake from forming, water flowing from a distant source was present.

@DSATUZ

Data collected by the Mars rover Curiosity at the Gale Crater's Murray Formation are suggestive of hydrological deposition of sediment in the distant past. To characterize the nature of the depositional environment, Frances Rivera-Hernández et al. analyzed the grain size of Murray Formation sediment, finding that although there are intervals of coarse grains, most of the sediment consists of fine grains that show signs of cracking due to episodic desiccation. Rivera-Hernández et al. concluded that the coarse grains are sandstone, which tends to be deposited by flowing water, whereas the fine grains are mudstone, which is slowly deposited by settling out of suspension in low-flow water, leading the researchers to posit that _____

Which choice most logically completes the text?

A. a lake existed at the Murray Formation for a prolonged period, though the lake occasionally experienced drying and there were periods in which one or more streams were present.

B. a stream-fed lake was present at the Murray Formation for an extended period, and although the streams experienced occasional drying, the lake did not.

C. one or more streams existed at the Murray Formation for an extended period until being replaced by a lake that persisted for only a brief period before permanently drying.

D. although the area of the Murray Formation experienced a prolonged period of dryness that prevented a lake from forming, water flowing from a distant source was present.

@DSATUZ

Although the language of the Olmec civilization, which flourished in southern Mexico circa 1500 BCE–400 BCE, hasn't been identified, it likely belonged to the Mixe-Zoquean family, a group of related languages whose present-day representatives are spoken in an area corresponding to ancient Olmec sites. The family can be subdivided into a Zoque branch, which includes Francisco León Zoque, and a Mixe branch, which includes North Central Mixe. Many words in the Mayan languages—languages spoken in the region but otherwise unrelated to the Mixe-Zoquean family—are Mixe-Zoquean in origin and were likely borrowed during the period when the Olmecs dominated the entire area. Tellingly, all those words derive from the Zoque branch, suggesting that _____

Which choice most logically completes the text?

A. North Central Mixe and the other languages of the Mixe branch likely supplanted the languages of the Zoque branch sometime before 1500 BCE.

B. the language of the Olmec civilization was likely the founding language of the family that includes Mayan languages.

C. the language of the Olmec civilization contributed words not only to Mayan languages but also to other languages in the Mixe-Zoquean family.

D. the Mixe-Zoquean family had already diverged into the Mixe and Zoque branches by the time the Olmecs became the prevailing power in the region.

@DSATUZ

In June of 1986, India liberalized its stock market, meaning that it began allowing foreign individuals and businesses to invest money in Indian companies. This was part of a wave of stock market liberalizations from the mid-1980s through the mid-1990s—Colombia in 1991, Nigeria in 1995, and so on. In an analysis of economic data from 1976 to 1993, Ross Levine and Sara Zervos found that liberalization did not lead to enduring increases in investment in companies based in countries that liberalized. Peter Blair Henry, however, found that, on average, investment in companies in liberalized countries increased significantly in the three years following liberalization. Taken together, these results suggest that _____

Which choice most logically completes the text?

A. liberalization may provide a boost to investment that fades over time.

B. economists' expectations about the effect of liberalization on investment were largely correct.

C. companies typically do not benefit from liberalization until at least three years after liberalization occurs.

D. investment growth is likely to be more consistent in countries that liberalize than in countries that do not.

@DSAT UZ

There are over 150 species of the cactus genus Mammillariathroughout the Americas, but their survival can be threatened byhigh precipitation and dense vegetation that blocks sunlight.Researchers have located species from the genus in almost everystate in Mexico, with several of them, like M. knippeliana, restrictedto only one state. The fact that this genus has not been observed ineastern and western Coahuila has been attributed to a lack ofappropriate habitat, but much of the landscape in this area isnotoriously inaccessible, which suggests that ___.

Which choice most logically completes the text?

A. the perceived absence of Mammillaria in eastern and western Coahuila may be due to insufficient exploration of the region.

B. M. knippeliana may have been overlooked in eastern and western Coahuila because of its similarity to another species.

C. the current methods of collecting and tracking Mammillaria species throughout Mexico may cause an overestimation of the number of species in this genus

D. the dense vegetation and high annual precipitation levels in eastern and western Coahuila impede the ability of Mammillaria species to survive.

@DSATUZ

Exclusively inhabiting tropical countries such as Tanzania, wild chimpanzees lack adaptations to seasonal variations in Ultraviolet B (UVB) irradiance from sunlight since UVB exposure enables vertebrates to synthesize vitamin D. This raises questions about how chimpanzees in mid-latitude zoos are affected by the lower and more variable UVB irradiance in those locations. In a study of zoo chimpanzees in France and other mid-latitude countries, Sophie Moittie and colleagues found not only that chimpanzees' vitamin D levels correlate with UVB irradiance but also that vitamin D levels show no evidence of plateauing as UVB irradiance reaches its lowest local levels, suggesting that ___

Which choice most logically completes the text?

A. adaptations to seasonal variations in UVB irradiance may be emerging in zoo chimpanzees in France and other mid-latitude countries.

B. averaged across seasons, vitamin D levels in zoo chimpanzees in mid-latitude countries such as France tend to be comparable to those in wild chimpanzees in tropical countries such as Tanzania.

C. providing supplemental vitamin D to chimpanzees in zoos in France and other mid-latitude countries would likely not be beneficial.

D. zoo chimpanzees in France and other mid-latitude countries tend to synthesize less vitamin D than they are inherently capable of synthesizing.

@DSAT UZ

To combat predation by the big brown bat and other insectivorous bats, many moth species, including Cechetra lineosa, emit ultrasonic pulses that, in some cases, disrupt the echolocation bats rely on for foraging. Some scientists have hypothesized that this capability evolved because it imposes a lower metabolic cost than does the alternative mechanism of producing chemicals that render moths noxious to bats. Pablo Sebastián Padron et al. investigated the acoustic properties of moths' ultrasonic responses to audio of bat echolocation and then assessed the palatability of the ultrasound-producing moths. They found that several moth genera that emit ultrasonic pulses capable of disrupting bat echolocation are unpalatable to bats, suggesting that ___

Which choice most logically completes the text?

A. the hypothesis about the development of this ultrasonic defense likely does not account for all instances of the trait in moths.

B. further investigations into moths' ability to protect themselves by disrupting bat echolocation will likely find that moth genera relying on this mechanism are also generally inedible to bats.

C. most genera of moths that produce ultrasound capable of disrupting bat echolocation do so primarily for purposes other than evading capture by the big brown bat and other predators.

D. although previous findings about Cechetra lineosa are consistent with the hypothesis about the low metabolic cost of producing noxious chemicals, the ability to disrupt bat echolocation and unpalatability are not mutually exclusive traits.

©DSAT UZ

As exemplified by Yi songs about the natural environment and Tlingit songs about wildlife encounters, ecological information can be transmitted in Indigenous songs, and in some instances is maintained only in this way. Kwaxsistalla Wath'tla, a song keeper for the Kwakwaka'wakw people in Canada, collaborated with ethnobiologist Dana Lepofsky et al. by sharing songs referencing terraced intertidal clam gardens the people implemented in the past to foster healthy development of a dietary staple. Drawing on archaeological evidence as well, Lepofsky et al. determined that the prevalence of the practice described in the songs corresponded with growth in clam size and abundance despite increased harvesting pressure—a finding that demonstrates that ___

Which choice most logically completes the text?

A. representation of practical applications of ecological knowledge is the defining characteristic of the music of certain Indigenous peoples.

B. the Kwakwaka'wakw people likely would not have detailed their creation of clam gardens in songs if their efforts had not produced significantly larger clams.

C. the clams harvested from intertidal terraces by Kwakwaka'wakw people in the past likely were a different species than the clams found in those areas today.

D. effective methods for the cultivation of sources of sustenance are among the ecological knowledge preserved in Indigenous songs.

@DSATUZ

The Clarion-Clipperton Zone (CCZ) is an expanse of abyssal plain and seamounts (underwater mountains) between Hawai‘i and Mexico in which mining is permitted, but the area’s biodiversity is poorly understood. The vast majority of invertebrate species found in a recent survey of the CCZ were hitherto unknown to scientists, and sampling for animal life has been highly concentrated in the eastern part of the zone. Some species like Ledella knudseni were identified both morphologically and molecularly (using DNA analysis), whereas Prionospio branchiluctida and other species for which molecular sampling was impracticable were identified solely based on physical morphology. Since molecular analysis does not require distinguishing subtle physiological differences, it is ___

Which choice most logically completes the text?

A) more likely to properly distinguish between morphologically similar but distinct invertebrate species than is the method used to identify Prionospio branchiluctida.

B) more frequently used for identifying species with physiological characteristics like those of Ledella knudseni than morphological analysis is.

C) better suited to distinguishing Prionospio branchiluctida from morphologically similar species than to distinguishing Ledella knudseni from morphologically similar species.

D) capable of providing greater physiological detail about a species than is the method used for Prionospio branchiluctida.

@DSATUZ

Over 600 languages are spoken in New York City in addition to English—one can find Bartangi spoken in the neighborhood of Yorkville, or Ghale in Jackson Heights. Most speakers of Chinese languages reside in the neighborhood of Flushing (part of New York City's borough of Queens) and in Chinatown, in the borough of Manhattan. New immigrants from north China, where Mandarin is the primary first language, tend to settle in Queens, while new immigrants from south China, where many people speak Cantonese or Fuzhounese as a first language, tend to settle in Manhattan. It can therefore be inferred that ___

Which choice most logically completes the text?

A) languages tend to change more rapidly in areas where many languages are spoken than in areas where few languages are spoken.

B) correlations in a country between languages and regions where they are spoken can replicate themselves in a new country to which the original country's citizens emigrate.

C) languages spoken by immigrant peoples can differ significantly in vocabulary and pronunciation from those same languages in their country of origin.

D) there is a positive correlation between the physical size of a country and the number of languages spoken in that country.

@DSAT UZ

F. Scott Fitzgerald's 1920 novel This Side of Paradise contains elements drawn from Fitzgerald's own life—there are many parallels between the experiences of the novel's protagonist, Amory Blaine, and those of Fitzgerald—and as a result This Side of Paradise is regularly described as an autobiographical novel. This characterization can be useful, but it also presents drawbacks in terms of how the work is perceived, as it may lead readers to believe that Fitzgerald merely fictionalized true events, which, in an artistic field where creativity and inventiveness are prized, can suggest that ___

Which choice most logically completes the text?

A. liberalization may provide a boost to investment that fades over time.

B. economists' expectations about the effect of liberalization on investment were largely correct.

C. companies typically do not benefit from liberalization until at least three years after liberalization occurs.

D. investment growth is likely to be more consistent in countries that liberalize than in countries that do not.

@DSATUZ

The Socio-Economic Panel (SOEP) is a longitudinal study surveying approximately 12,000 individuals in Germany to glean extended trends in childhood development. To carry out the necessary sampling of the population over many years, SOEP needs extensive financial support, but this method provides valuable insights into causal relationships. However, when questions of causation are irrelevant, as with a transportation study seeking only to reveal the number of people per day who use a city's public transportation system, longitudinal methods are unnecessary, and so...

Which choice most logically completes the text?

A. the expense of SOEP is likely greater than the cost of longitudinal studies of transportation.

B. conclusions drawn from SOEP are likely to be more authoritative than those from the transportation study.

C. longitudinal methods are suitable for studies of childhood development but ought to be avoided for those of transportation.

D. the success of the transportation study likely requires significantly less financial outlay than that needed for SOEP.

@DSATUZ

Quasars—such as the Markarian 231 quasar, located in Ursa Major—are extremely luminous galactic nuclei powered by supermassive black holes. Quasars range in age, with approximately 200 of them known to have developed within the first billion years of the formation of the universe. Cosmologists have long wondered how any quasars could have formed so early in the universe's evolution, given that conditions are believed to have been ill-suited to their creation, which suggests that ___

Which choice most logically completes the text?

A. the Markarian 231 quasar is likely less massive than quasars that formed more than a billion years after the beginnings of the universe.

B. quasars that formed in the early universe are likely not as luminous as those that formed later.

C. the Markarian 231 quasar is thought to have formed less than a billion years after the beginnings of the universe.

D. some aspect of the scientific understanding of quasar formation or the early universe may be incomplete.

@DSATUZ

Mongolia, which, according to international indices, has relatively strong democratic institutions and low intranational income inequality, experienced an inflation rate of 4.3% in 2017, whereas Cameroon, which shows the opposite pattern on such indices, had an inflation rate of only 0.6% that year. Such comparisons have engendered speculation that by diluting control over the economy, democratic institutions inhibit states' ability to counteract inflationary pressures. To test this possibility systematically, Raj Desai et al. examined democratic strength, intranational inequality, and inflation in more than 100 countries, finding that democratic strength, if associated with low inequality, restrains inflationary pressures, suggesting that ___

Which choice most logically completes the text?

A. it would be a mistake to treat the relative inflation rates of Mongolia and Cameroon as indicative of an inherent shortcoming in democratic institutions with regard to control over inflation.

B. speculations about the relative inability of democratic institutions to counteract inflation are based on measures that tend to exaggerate the levels of inflation in strongly democratic countries such as Mongolia.

C. the factors that contributed to Mongolia's elevated inflation rate relative to Cameroon's have less to do with the countries' political institutions than with the countries' levels of income inequality.

D. the difference between Mongolia and Cameroon with regard to democratic institution strength may have been greater in 2017 than was represented by international indices.

@DSATUZ

Thanks for completing this book!
Feel free to share this file with people who are struggling with inferences, wish you a good luck on your exam!

@DSATUZ

GET MORE QUESTIONS

1. D
2. C
3. C
4. A
5. D
6. A
7. D
8. D
9. A
10. A
11. B
12. D
13. B
14. A
15. A
16. C
17. B
18. B
19. D
20. A
21. D
22. D
23. A
24. D
25. A
26. B
27. A
28. D
29. D
30. A

I hope this file was really useful for you and you learned something new. Wish you a good luck! Make sure to follow the channel

t.me/shoks927

Or scan the qr code

@DSATUZ

GET MORE QUESTIONS