

SAT Reading & Writing

Text, Structure, and Purpose 3

Question # ID

3.1 82cb7dda

The field of study called affective neuroscience seeks instinctive, physiological causes for feelings such as pleasure or displeasure. Because these sensations are linked to a chemical component (for example, the release of the neurotransmitter dopamine in the brain when one receives or expects a reward), they can be said to have a partly physiological basis. These processes have been described in mammals, but Jingnan Huang and his colleagues have recently observed that some behaviors of honeybees (such as foraging) are also motivated by a dopamine-based signaling process.

What choice best describes the main purpose of the text?

- A. It describes an experimental method of measuring the strength of physiological responses in humans.
- B. It illustrates processes by which certain insects can express how they are feeling.
- C. It summarizes a finding suggesting that some mechanisms in the brains of certain insects resemble mechanisms in mammalian brains.
- D. It presents research showing that certain insects and mammals behave similarly when there is a possibility of a reward for their actions.

3.2 d4732483

Studying late nineteenth- and early twentieth-century artifacts from an agricultural and domestic site in Texas, archaeologist Ayana O. Flewellen found that Black women employed as farm workers utilized hook-and-eye closures to fasten their clothes at the waist, giving themselves a silhouette similar to the one that was popular in contemporary fashion and typically achieved through more restrictive garments such as corsets. Flewellen argues that this sartorial practice shows that these women balanced hegemonic ideals of femininity with the requirements of their physically demanding occupation.

Which choice best states the main purpose of the text?

- A. To describe an unexpected discovery that altered a researcher's view of how rapidly fashions among Black female farmworkers in late nineteenth- and early twentieth-century Texas changed during the period
- B. To discuss research that investigated the ways in which Black female farmworkers in late nineteenth- and early twentieth-century Texas used fashion practices to resist traditional gender ideals
- C. To evaluate a scholarly work that offers explanations for the impact of urban fashion ideals on Black female farmworkers in late nineteenth- and early twentieth-century Texas
- D. To summarize the findings of a study that explored factors influencing a fashion practice among Black female farmworkers in late nineteenth- and early twentieth-century Texas

3.3 b0f7541b

The following text is adapted from Herman Melville's 1857 novel *The Confidence-Man*. Humphry Davy was a prominent British chemist and inventor.

Years ago, a grave American savant, being in London, observed at an evening party there, a certain coxcombical fellow, as he thought, an absurd ribbon in his lapel, and full of smart [banter], whisking about to the admiration of as many as were disposed to admire. Great was the savant's disdain; but, chancing ere long to find himself in a corner with the jackanapes, got into conversation with him, when he was somewhat ill-prepared for the good sense of the jackanapes, but was altogether thrown aback, upon subsequently being [informed that he was] no less a personage than Sir Humphry Davy.

Which choice best states the main purpose of the text?

- A. It portrays the thoughts of a character who is embarrassed about his own behavior.
- B. It presents an account of a misunderstanding.
- C. It offers a short history of how a person came to be famous.
- D. It explains why one character dislikes another.

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3.4 c61a7c4a

Some studies have suggested that posture can influence cognition, but we should not overstate this phenomenon. A case in point: In a 2014 study, Megan O'Brien and Alaa Ahmed had subjects stand or sit while making risky simulated economic decisions. Standing is more physically unstable and cognitively demanding than sitting; accordingly, O'Brien and Ahmed hypothesized that standing subjects would display more risk aversion during the decision-making tasks than sitting subjects did, since they would want to avoid further feelings of discomfort and complicated risk evaluations. But O'Brien and Ahmed actually found no difference in the groups' performance.

Which choice best states the main purpose of the text?

- A. It argues that research findings about the effects of posture on cognition are often misunderstood, as in the case of O'Brien and Ahmed's study.
- B. It presents the study by O'Brien and Ahmed to critique the methods and results reported in previous studies of the effects of posture on cognition.
- C. It explains a significant problem in the emerging understanding of posture's effects on cognition and how O'Brien and Ahmed tried to solve that problem.
- D. It discusses the study by O'Brien and Ahmed to illustrate why caution is needed when making claims about the effects of posture on cognition.

3.5 aa5897b8

In Jane Austen's novel *Mansfield Park*, an almost imperceptible smile from potential suitor Henry Crawford causes the protagonist Fanny Price to blush; her embarrassment grows when she suspects that he is aware of it. This moment—in which Fanny not only infers Henry's mental state through his gestures, but also infers that he is drawing inferences about *her* mental state—illustrates what literary scholar George Butte calls "deep intersubjectivity," a technique for representing interactions between consciousnesses through which Austen's novels derive much of their social and psychological drama.

Which choice best describes the function of the underlined sentence in the text as a whole?

- A. It states a claim about Austen's skill at representing psychological complexity that is reinforced by an example presented in the following sentence.
- B. It advances an interpretation of an Austen protagonist who is contrasted with protagonists from other Austen novels cited in the following sentence.
- C. It describes a recurring theme in Austen's novels that is the focus of a literary scholar's analysis summarized in the following sentence.
- D. It provides a synopsis of an interaction in an Austen novel that illustrates a literary concept discussed in the following sentence.

3.6 b4887dae

Mathematician Claude Shannon is widely regarded as a foundational figure in information theory. His most important paper, "A Mathematical Theory of Communication," published in 1948 when he was employed at Bell Labs, utilized a concept called a "binary digit" (shortened to "bit") to measure the amount of information in any signal and determine the fastest rate at which information could be transmitted while still being reliably decipherable. Robert Gallagher, one of Shannon's colleagues, said that the bit was "[Shannon's] discovery, and from it the whole communications revolution has sprung."

Which choice best describes the overall structure of the text?

- A. It presents a theoretical concept, illustrates how the name of the concept has changed, and shows how the name has entered common usage.
- B. It introduces a respected researcher, describes an aspect of his work, and suggests why the work is historically significant.
- C. It names the company where an important mathematician worked, details the mathematician's career at the company, and provides an example of the recognition he received there.
- D. It mentions a paper, offers a summary of the paper's findings, and presents a researcher's commentary on the paper.

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3.7 34d7bb25

According to Indian economist and sociologist Radhakamal Mukerjee (1889–1968), the Eurocentric concepts that informed early twentieth-century social scientific methods—for example, the idea that all social relations are reducible to struggles between individuals—had little relevance for India. Making the social sciences more responsive to Indians’ needs, Mukerjee argued, required constructing analytical categories informed by India’s cultural and ecological circumstances. Mukerjee thus proposed the communalist “Indian village” as the ideal model on which to base Indian economic and social policy.

Which choice best describes the overall structure of the text?

- A. The text recounts Mukerjee’s early training in the social scientific disciplines and then lists social policies whose implementation Mukerjee oversaw.
- B. The text mentions some of Mukerjee’s economic theories and then traces their impact on other Indian social scientists of the twentieth century.
- C. The text presents Mukerjee’s critique of the social sciences and then provides an example of his attempts to address issues he identified in his critique.
- D. The text explains an influential economic theory and then demonstrates how that theory was more important to Mukerjee’s work than other social scientists have acknowledged.

3.8 4eee64fa

Space scientists Anna-Lisa Paul, Stephen M. Elardo, and Robert Ferl planted seeds of *Arabidopsis thaliana* in samples of lunar regolith—the surface material of the Moon—and, serving as a control group, in terrestrial soil. They found that while all the seeds germinated, the roots of the regolith-grown plants were stunted compared with those in the control group. Moreover, unlike the plants in the control group, the regolith-grown plants exhibited red pigmentation, reduced leaf size, and inhibited growth rates—indicators of stress that were corroborated by postharvest molecular analysis.

Which choice best states the main purpose of the text?

- A. It describes an experiment that addressed an unresolved question about the extent to which lunar regolith resembles terrestrial soils.
- B. It compares two distinct methods of assessing indicators of stress in plants grown in a simulated lunar environment.
- C. It presents evidence in support of the hypothesis that seed germination in lunar habitats is an unattainable goal.
- D. It discusses the findings of a study that evaluated the effects of exposing a plant species to lunar soil conditions.

3.9 a70cbc53

Raymond Antrobus, an accomplished poet and writer of prose, recently released his debut spoken word poetry album, *The First Time I Wore Hearing Aids*, in collaboration with producer Ian Brennan. The album contains both autobiographical and reflective pieces combining Antrobus’s spoken words with Brennan’s fragmented audio elements and pieces of music to convey how people who are deaf may experience sound, both its presence and absence. Some critics suggest that the album questions the function of sound in the world, highlighting that the experience of sound is multifaceted.

Which choice best describes the overall structure of the text?

- A. It introduces a collaborative spoken word poetry project, details the approach taken to produce the work, and then provides an example of critique the album received upon release.
- B. It mentions a collection of spoken word poems, distinguishes one poem as being an exemplar on the album, and then offers a summary of the subject matter of the whole collection.
- C. It summarizes the efforts to produce a collection of spoken word poems, presents biographies of two people who worked on the album, and speculates about the meaning behind the poetry.
- D. It connects two artists to the same spoken word poetry project, explains the extent of their collaboration on each poem, and then provides an overview of the technique used to produce the work.

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3.10 9b01bcf4

The 1967 release of Harold Cruse's book *The Crisis of the Negro Intellectual* isolated him from almost all other scholars and activists of the American Civil Rights Movement—though many of those thinkers disagreed with each other, he nonetheless found ways to disagree with them all. He thought that activists who believed that Black people such as himself should culturally assimilate were naïve. But he also sharply criticized Black nationalists such as Marcus Garvey who wanted to establish independent, self-contained Black economies and societies, even though Cruse himself identified as a Black nationalist.

Which choice best describes the function of the underlined sentence in the text as a whole?

- A. It describes a direction that Cruse felt the Civil Rights Movement ought to take.
- B. It indicates that Cruse's reputation as a persistent antagonist of other scholars is undeserved.
- C. It describes a controversy that Cruse's work caused within the Black nationalist movement.
- D. It helps explain Cruse's position with respect to the community of civil rights thinkers.

3.11 6ae393f7

Asteroid 6478 Gault has experienced intermittent mass loss since at least 2013, but in contrast to some other asteroids with repeated mass-loss episodes, 6478 Gault has not lost mass at its perihelion (the closest point of its orbit to the Sun), and thus the loss is not attributable to solar energy–driven ice vaporization. And as Jane X. Luu et al. point out, the singular nature of impact ejection makes it untenable as an account of multiple loss episodes of similar duration over several years. Instead, Luu et al. are likely correct that 6478 Gault is shedding mass due to rotational instability.

Which choice best describes the overall structure of the text?

It presents a scientific observation, describes a contrast between that observation and other observations, and then
A. explains why those other observations should not be considered credible.

It describes an astronomical finding, discusses competing theories about that finding that the author regards as flawed,
B. and then describes new evidence that supports an alternative theory.

It introduces a natural phenomenon, refutes two potential explanations for that phenomenon, and then presents a third
C. explanation for that phenomenon that the author regards as plausible.

It discusses a physical process, evaluates possible causes of that process, and then states that a persuasive account of
D. the process has yet to be put forward.

3.12 2e744883

Historians have argued that a crucial component of the Civil Rights Movement's success in the 1960s was the Southern Christian Leadership Conference's Citizen Education Program (CEP), which invited promising activists from across the South to its one-week training sessions in Dorchester, Georgia. Led by experienced organizers such as Dorothy Cotton and Septima Clark, CEP attendees—more than 7,000 in all—participated in workshops on topics ranging from public speaking to legal doctrine before returning home and using their newly acquired knowledge to spearhead local civil rights initiatives.

Which choice best describes the function of the underlined portion in the text as a whole?

A. It underscores the extent of the CEP's impact on the Civil Rights Movement of the 1960s.

B. It illustrates the CEP organizers' efforts to educate participants on a wide variety of topics.

It suggests that CEP attendees held a diverse array of opinions about the Southern Christian Leadership Conference's
C. political philosophy.

D. It establishes that criticism of the CEP was limited to a few individuals in the Southern Christian Leadership Conference.

3.13 d9915c15

In 2020, rap artist and professor A.D. Carson published the first peer-reviewed rap album about his experiences with Black masculinity called "i used to love to dream." Typically in peer review, experts evaluate scholarly articles prior to publication. For Carson's album, dubbed a "mixtap/e/ssay," peer review involved both scholars and rap artists. In combining elements of a mixtape album with scholarly essays that connect Carson's lyrics to historical and contemporary contexts for listeners both inside and outside academia, Carson's album helped redefine how scholarship is created and shared.

Which choice best states the main purpose of the text?

A. To compare the relative public impact of scholarly articles and albums

B. To capture one scholar's opinion of a new rap album

C. To explain why a certain rap album is particularly innovative

D. To describe how each step of the peer review process unfolds

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3.14 6bc0ba75

The mimosa tree evolved in East Asia, where the beetle *Bruchidius terrenus* preys on its seeds. In 1785, mimosa trees were introduced to North America, far from any *B. terrenus*. But evolutionary links between predators and their prey can persist across centuries and continents. Around 2001, *B. terrenus* was introduced in southeastern North America near where botanist Shu-Mei Chang and colleagues had been monitoring mimosa trees. Within a year, 93 percent of the trees had been attacked by the beetles.

Which choice best describes the function of the third sentence in the overall structure of the text?

- A. It states the hypothesis that Chang and colleagues had set out to investigate using mimosa trees and *B. terrenus*.
- B. It presents a generalization that is exemplified by the discussion of the mimosa trees and *B. terrenus*.
- C. It provides context that clarifies why the species mentioned spread to new locations.
- D. It offers an alternative explanation for the findings of Chang and colleagues.

3.15 ad4f7362

The following text is from John Dryden's 1697 translation of Virgil's poem the *Aeneid*, written in the first century BCE. Queen Dido has just heard the Trojan hero Aeneas recount a sad tale.

But anxious cares already seiz'd the queen:
She fed within her veins a flame unseen;
The hero's valor, acts, and birth inspire
Her soul with love, and fan the secret fire.
His words, his looks, imprinted in her heart,
Improve the passion, and increase the smart.

Which choice best states the main purpose of the text?

- A. To indicate that Dido is hiding her skepticism of Aeneas's account
- B. To emphasize that Dido has been deeply affected by Aeneas's story
- C. To imply that Dido engages both emotionally and intellectually with Aeneas
- D. To suggest that Dido is worried that Aeneas might discover a secret she is keeping from him

3.16 0b5ecf0e

During Rome's republican period, which ended in the first century BCE, libraries were predominantly owned by wealthy individuals who tightly controlled access to their book collections. The first public library became available in Rome in 28 BCE and was soon followed by one commissioned by Emperor Augustus. As modern scholar Fabio Fernandes notes, however, these two traditions aren't as distinct as they seem, as both the emperor and the private library owners viewed their libraries as extensions of their personal patronage, just on vastly differing scales.

Which choice best states the main purpose of the text?

- A. To give a brief overview of public access to libraries throughout Rome's republican period
- B. To contend that early imperial leaders in Rome wielded too much influence over libraries
- C. To assert that private and early public libraries in ancient Rome had an essential similarity
- D. To call into question the notion that private Roman libraries disappeared during the first century BCE

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3.17 4ed09415

Vadamalai Elangovan and Ganapathi Marimuthu showed that high moonlight intensity inhibits the activity of the greater short-nosed fruit bat (*Cynopterus sphinx*), a result explicable in terms of benefits and costs: greater lunar intensity may not enable the bats to increase foraging success enough to offset the higher chance of detection by predatory owls or hawks. Most other nocturnal mammals respond to lunar intensity variations similarly to greater short-nosed fruit bats, but mongoose lemurs (*Eulemur mongoz*) display the opposite pattern, as their heavy reliance on visual foraging results in a different balance of reward and risk.

Which choice best describes the overall structure of the text?

- A. It discusses two different responses to the same natural phenomenon, explains why one of those responses occurs, and then suggests that the other response still needs to be explained.
- B. It describes and accounts for a finding, characterizes the finding as representative of a general pattern, and then describes and accounts for an exception to that pattern.
- C. It presents and explains a study result, indicates that the result is similar to the results of many other studies, and then attributes a conflicting study result to a difference in that study's methods.
- D. It introduces an observation of a behavioral pattern, presents an explanation for the pattern, and then describes an exception to the pattern that casts doubt on that explanation.

3.18 65406d2c

Dubautia carriei is a species in a family of plants known collectively as the silversword alliance, all of which grow only on the Hawaiian Islands. Members of this alliance exhibit an extraordinary range of phenotypes, with some species maturing into vines and others into shrubs and trees. All species in the alliance descended from a single ancestral tarweed plant that arrived on the islands around 5 million years ago. The tarweed's descendants diversified into distinct species as they adapted to live in the wide variety of habitats found on the Hawaiian Islands.

Which choice best states the main purpose of the text?

- A. To indicate the specific tarweed ancestor of all plants that grow on the Hawaiian Islands and explain why the plants have such varied physical characteristics
- B. To describe the specific habitat where *Dubautia carriei* are found and identify other plants that share a common ancestor with them
- C. To describe the silversword alliance and explain how the plant family became so varied
- D. To advance the claim that all plants on the Hawaiian Islands are part of the silversword alliance and list possible ancestors of the plants that make up the alliance

3.19 5f56fdec

The following text is from George Marion McClellan's 1895 poem "Eternity."

My spirit swoons, and all my senses cry
For Ocean's breast and covering of the sky.
Rock me to sleep, ye waves, and outward bound,
Just let me drift far out from toil and care,
Where lapping of the waves shall be the sound,
Which mingled with the winds that gently bear
Me on between a peaceful sea and sky,
To make my soothing slumberous lullaby.

Which choice best states the main purpose of the text?

- A. To illustrate the increasing intensity of the speaker's desire to escape ongoing hardship by gliding on the ocean
- B. To contrast the demands of the speaker's everyday life with the serenity of being rocked to sleep by the ocean
- C. To convey the speaker's longing for the ocean to impart a sense of inner tranquility
- D. To justify the speaker's qualms about being transported by the ocean to a quiet destination