



**GRE 佛脚备考系列之**  
**新 GRE 阅读官方题目+机经大全（2014 年分册）**

## 前 言

继我们推出 GRE 佛脚备考系列填空 2014 分册后，同学们期待久矣的阅读分册终于来了。本材料整理自 GRE 官方 OG，PP2，150 和各种机经文章，并经过编者验证确为 GRE 阅读机经真题，是目前市面上最值得信赖的、可靠的机经真题合集。

本册书共分为三个章节：

- 第一章节为官方题目，包括 GRE Official Guide，Powerprep II 和 150 题目，共计 103 篇文章。
- 第二章节为机经真题，共收录 137 篇机经阅读文章，包括长阅读、短阅读和逻辑单题。

本册书与**填空 2014 年分册**、**2015 年分册**和 **Unknown Source 分册**配合使用，可以满足绝大部分学生的学习需求。很多同学总爱问，这册书是所有题目吗？题目全不全？我们一直认为，你需要的是把每一道题目都想明白，刷太多题目真的没有任何意义。同时建议同学们在强化班结束将**填空 2014 年分册**和**阅读 2014 年分册**理解透彻后，**选择精讲精练 B 班，我们准备了 11 套新模拟题**，等你打磨考场技巧。（报名请戳 [bj.xdf.cn](http://bj.xdf.cn)）

GRE 题目多刷无意，尤其是阅读题目，希望读者在珍惜题目来之不易的同时，也要反复思考，不要靠题海战术，这样只能将自己宝贵的时间浪费在无意义的事情上。感谢万炜老师、高宇琪老师在 GRE 题目答案修订的辛苦付出，感谢闫晨晨老师的辛苦整理。我们带着满满的诚意，与你共赴 GRE 疆场！

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## Part 1

### OG-1

#### Passage 1

Reviving the practice of using elements of popular music in classical composition, an approach that had been in hibernation in the United States during the 1960s, composer Philip Glass (born 1937) embraced the ethos of popular music without imitating it. Glass based two symphonies on music by rock musicians David Bowie and Brian Eno, but the symphonies' sound is distinctively his. Popular elements do not appear out of place in Glass's classical music, which from its early days has shared certain harmonies and rhythms with rock music. Yet this use of popular elements has not made Glass a composer of popular music. His music is not a version of popular music packaged to attract classical listeners; it is high art for listeners steeped in rock rather than the classics.

1. The passage addresses which of the following issues related to Glass's use of popular elements in his classical compositions?
  - A. How it is regarded by listeners who prefer rock to the classics
  - B. How it has affected the commercial success of Glass's music
  - C. Whether it has contributed to a revival of interest among other composers in using popular elements in their compositions
  - D. Whether it has had a detrimental effect on Glass's reputation as a composer of classical music
  - E. Whether it has caused certain of Glass's works to be derivative in quality
2. The passage suggests that Glass's work displays which of the following qualities?
  - A. A return to the use of popular music in classical compositions
  - B. An attempt to elevate rock music an artistic status more closely approximating that of classical music
  - C. A long-standing tendency to incorporate elements from two apparently disparate musical styles
3. Select the sentence that distinguishes two ways of integrating rock and classical music.

#### Passage 2

A person who agrees to serve as mediator between two warring factions at the request of both abandons by so agreeing the right to take sides later. To take sides at a later point would be to suggest that the earlier presumptive impartiality was a sham.

1. The passage above emphasizes which of the following points about mediators?
  - A. They should try to form no opinions of their own about any issue that is related to the dispute.
  - B. They should not agree to serve unless they are committed to maintaining a stance of impartiality.
  - C. They should not agree to serve unless they are equally acceptable to all parties to a dispute.
  - D. They should feel free to take sides in the dispute right from the start, provided that they make their biases publicly known.
  - E. They should reserve the right to abandon their impartiality so as not to be open to the charge of having been deceitful.

### Passage 3

Was Felix Was Felix Mendelssohn (1809–1847) a great composer? On its face, the question seems absurd. One of the most gifted prodigies in the history of music, he produced his first masterpiece at sixteen. From then on, he was recognized as an artist of preternatural abilities, not only as a composer but also as a pianist and conductor. But Mendelssohn's enduring popularity has often been at odds — sometimes quite sharply — with his critical standing. Despite general acknowledgment of his genius, there has been a noticeable reluctance to rank him with, say, Schumann or Brahms. As Haggin put it, Mendelssohn, as a composer, was a “minor master...working on a small scale of emotion and texture.”

1. Select a sentence in the passage whose function is to indicate the range of Mendelssohn's musical talents.
2. The passage suggests that anyone attempting to evaluate Mendelssohn's career must confront which of the following dichotomies?
  - A. The tension between Mendelssohn's career as a composer and his career as a pianist and conductor
  - B. The contrast between Mendelssohn's popularity and that of Schumann and Brahms
  - C. The discrepancy between Mendelssohn's popularity and his standing among critics
  - D. The inconsistency between Mendelssohn's reputation during his lifetime and his reputation since his death
  - E. The gap between Mendelssohn's prodigious musical beginnings and his decline in later years.
3. The author mentions Schumann and Brahms primarily in order to
  - A. provide examples of composers who are often compared with Mendelssohn
  - B. identify certain composers who are more popular than Mendelssohn
  - C. identify composers whom Mendelssohn influenced
  - D. establish the milieu in which Mendelssohn worked
  - E. establish a standard of comparison for Mendelssohn as a composer

### Passage 4

While most scholarship on women's employment in the United States recognizes that the

Second World War (1939–1945) dramatically changed the role of women in the workforce, these studies also acknowledge that few women remained in manufacturing jobs once men returned from the war. But in agriculture, unlike other industries where women were viewed as temporary workers, women's employment did not end with the war. Instead, the expansion of agriculture and a steady decrease in the number of male farmworkers combined to cause the industry to hire more women in the postwar years.

Consequently, the 1950s saw a growing number of women engaged in farm labor, even though rhetoric in the popular media called for the return of women to domestic life.

1. It can be inferred from the passage that the manufacturing and agricultural sectors in the United States following the Second World War differed in which of the following respects?

- A. The rate of expansion in each sector
- B. The percentage of employees in each sector who were men
- C. The trend in the wages of men employed in each sector
- D. The attitude of the popular media toward the employment of women in each sector
- E. The extent to which women in each sector were satisfied with their jobs

2. Which of the following statements about women's employment in the United States during and after the Second World War is most clearly supported by the passage?

- A. Most women who joined the workforce during the Second World War wanted to return to domestic life when the war ended.
- B. The great majority of women who joined the workforce during the Second World War were employed in manufacturing jobs.
- C. The end of the Second World War was followed by a large-scale transfer of women workers from manufacturing to agriculture.
- D. The increase in women's employment that accompanied the Second World War was longer lasting in agriculture than it was in manufacturing.
- E. The popular media were more forceful in calling for women to join the workforce during the Second World War than in calling for women to return to domestic life after the war.

### Passage 5

Since the Hawaiian Islands have never been connected to other land masses, the great variety of plants in Hawaii must be a result of the long-distance dispersal of seeds, a process that requires both a method of transport and an equivalence between the ecology of the source area and that of the recipient area.

There is some dispute about the method of transport involved. Some biologists argue that ocean and air currents are responsible for the transport of plant seeds to Hawaii. Yet the **results of flotation experiments** and the low temperatures of air currents cast doubt on these hypotheses. More probable is bird transport, either externally, by accidental attachment of the seeds to feathers, or internally, by the swallowing of fruit and subsequent excretion of the seeds. While it is likely that fewer varieties of plant seeds have reached Hawaii externally than internally, more varieties are known to be adapted to external than to internal transport.

1. The author of the passage is primarily concerned with
  - A. discussing different approaches biologists have taken to testing theories about the distribution of plants in Hawaii
  - B. discussing different theories about the transport of plant seeds to Hawaii
  - C. discussing the extent to which air currents are responsible for the dispersal of plant seeds to Hawaii
  - D. resolving a dispute about the adaptability of plant seeds to bird transport
  - E. resolving a dispute about the ability of birds to carry plant seeds long distances
2. The author mentions the results of flotation experiments on plant seeds most probably in order to
  - A. support the claim that the distribution of plants in Hawaii is the result of the long-distance dispersal of seeds
  - B. lend credibility to the thesis that air currents provide a method of transport for plant seeds to Hawaii
  - C. suggest that the long-distance dispersal of seeds is a process that requires long periods of time
  - D. challenge the claim that ocean currents are responsible for the transport of plant seeds to Hawaii
  - E. refute the claim that Hawaiian flora evolved independently from flora in other parts of the world

#### Passage 6

I enjoyed *A Dream of Light & Shadow: Portraits of Latin American Women Writers* for the same reasons that, as a child, I avidly consumed women's biographies: the fascination with how the biographical details of another female's life are represented and interpreted.

*A Dream* offers a rich read, varied in both the lives and texts of the women portrayed, and the perspectives and styles of the sixteen essayists. Yet, as an adult, I have come to demand of any really "great" book a self-consciousness about the tenuous nature of representations of reality, a critical contextualization of florid detail, and a self-awareness of the role of ideology in our lives. In these critical senses, *A Dream* is inadequate.

For the following question, consider each of the choices separately and select all that apply.

1. The author of the passage suggests that *A Dream* falls short in which of the following respects?
  - A. It does not appear to recognize that representations of reality can be unreliable.
  - B. It seems to focus on stylistic variety at the expense of accuracy of detail.
  - C. It offers a wealth of detail without sufficient critical examination of that detail.
2. Which of the following best describes the function of the second sentence ("*A Dream* . . . essayists") in the context of the passage as a whole?
  - A. To give examples of how *A Dream* presents fascinating portraits that display awareness of the tenuous nature of representations of reality

- B. To elaborate on how *A Dream* fulfills the author's childhood criteria for a pleasurable book
- C. To suggest that the author enjoyed *A Dream* for reasons more sophisticated than the reasons she enjoyed certain books as a child
- D. To illustrate ways in which the author finds *A Dream* to be inadequate in certain critical senses
- E. To imply that *A Dream* is too varied in focus to provide a proper contextualization of the biographical details it offers

### Passage 7

During the day in Lake Constance, the zooplankton *D. hyalina* departs for the depths where food is scarce and the water cold. *D. galeata* remains near the warm surface where food is abundant. Even though *D. galeata* grows and reproduces much faster, its population is often outnumbered by *D. hyalina*.

1. Which of the following, if true, would help resolve the apparent paradox presented above?
  - A. The number of species of zooplankton living at the bottom of the lake is twice that of species living at the surface.
  - B. Predators of zooplankton, such as whitefish and perch, live and feed near the surface of the lake during the day.
  - C. In order to make the most of scarce food resources, *D. hyalina* matures more slowly than *D. galeata*.
  - D. *D. galeata* clusters under vegetation during the hottest part of the day to avoid the Sun's rays.
  - E. *D. galeata* produces twice as many offspring per individual in any given period of time as does *D. hyalina*.

### Passage 8

Tocqueville, apparently, was wrong. Jacksonian America was not a fluid, egalitarian society where individual wealth and poverty were ephemeral conditions. At least so argues E. Pessen in his iconoclastic study of the very rich in the United States between 1825 and 1850.

Pessen does present a quantity of examples, together with some refreshingly intelligible statistics, to establish the existence of an inordinately wealthy class. Though active in commerce or the professions, most of the wealthy were not self-made but had inherited family fortunes. In no sense mercurial, these great fortunes survived the financial panics that destroyed lesser ones. Indeed, in several cities the wealthiest one percent constantly increased its share until by 1850 it owned half of the community's wealth. Although these observations are true, Pessen overestimates their importance by concluding from them that the undoubted progress toward inequality in the late eighteenth century continued in the Jacksonian period and that the United States was a class-ridden, plutocratic society even before industrialization.

1. According to the passage, Pessen indicates that all of the following were true of the very wealthy in the United States between 1825 and 1850 EXCEPT:
  - A. They formed a distinct upper class.



- B. Many of them were able to increase their holdings.
  - C. Some of them worked as professionals or in business.
  - D. Most of them accumulated their own fortunes.
  - E. Many of them retained their wealth in spite of financial upheavals.
2. Which of the following best states the author's main point?
- A. Pessen's study has overturned the previously established view of the social and economic structure of early-nineteenth-century America.
  - B. Tocqueville's analysis of the United States in the Jacksonian era remains the definitive account of this period.
  - C. Pessen's study is valuable primarily because it shows the continuity of the social system in the United States throughout the nineteenth century.
  - D. The social patterns and political power of the extremely wealthy in the United States between 1825 and 1850 are well documented.
  - E. Pessen challenges a view of the social and economic systems in the United States from 1825 to 1850, but he draws conclusions that are incorrect.

### Passage 9

The evolution of intelligence among early large mammals of the grasslands was due in great measure to the interaction between two ecologically synchronized groups of these animals, the hunting carnivores and the herbivores that they hunted. The interaction resulting from the differences between predator and prey led to a general improvement in brain functions; however, certain components of intelligence were improved far more than others.

The kind of intelligence favored by the interplay of increasingly smarter catchers and increasingly keener escapers is defined by attention — that aspect of mind carrying consciousness forward from one moment to the next. It ranges from a passive, freefloating awareness to a highly focused, active fixation. The range through these states is mediated by the arousal system, a network of tracts converging from sensory systems to integrating centers in the brain stem. From the more relaxed to the more vigorous levels, sensitivity to novelty is increased. The organism is more awake, more vigilant; this increased vigilance results in the apprehension of ever more subtle signals as the organism becomes more sensitive to its surroundings. The processes of arousal and concentration give attention its direction. Arousal is at first general, with a flooding of impulses in the brain stem; then gradually the activation is channeled. Thus begins concentration, the holding of consistent images. One meaning of intelligence is the way in which these images and other alertly searched information are used in the context of previous experience. Consciousness links past attention to the present and permits the integration of details with perceived ends and purposes.

The elements of intelligence and consciousness come together marvelously to produce different styles in predator and prey. Herbivores and carnivores develop different kinds of attention related to escaping or chasing. Although in both kinds of animal, arousal stimulates the production of adrenaline and norepinephrine by the adrenal glands, the effect in herbivores is primarily fear, whereas in carnivores the effect is primarily aggression. For both, arousal attunes the animal to what is ahead. Perhaps it does not experience forethought as we know it,

but the animal does experience something like it. The predator is searchingly aggressive, inner-directed, tuned by the nervous system and the adrenal hormones, but aware in a sense closer to human consciousness than, say, **a hungry lizard's** instinctive snap at a passing beetle. Using past events as a framework, the large mammal predator is working out a relationship between movement and food, sensitive to possibilities in cold trails and distant sounds—and yesterday's unforgotten lessons. The herbivore prey is of a different mind. Its mood of wariness rather than searching and its attitude of general expectancy instead of anticipating are silk-thin veils of tranquility over an explosive endocrine system.

1. The author refers to a hungry lizard primarily in order to
  - A. demonstrate the similarity between the hunting methods of mammals and those of nonmammals
  - B. broaden the application of the argument by including an insectivore as an example
  - C. make a distinction between higher and lower levels of consciousness
  - D. provide an additional illustration of the brutality characteristic of predators
  - E. offer an objection to suggestions that all animals lack consciousness line
2. It can be inferred from the passage that in animals less intelligent than the mammals discussed in the passage
  - A. past experience is less helpful in ensuring survival
  - B. attention is more highly focused
  - C. muscular coordination is less highly developed
  - D. there is less need for competition among species
  - E. environment is more important in establishing the proper ratio of prey to predator
3. According to the passage, improvement in brain function among early large mammals resulted primarily from which of the following?
  - A. Interplay of predator and prey
  - B. Persistence of free-floating awareness in animals of the grasslands
  - C. Gradual dominance of warm-blooded mammals over cold-blooded reptiles
  - D. Interaction of early large mammals with less intelligent species
  - E. Improvement of the capacity for memory among herbivores and carnivores
4. According to the passage, as the process of arousal in an organism continues, all of the following may occur EXCEPT
  - A. the production of adrenaline
  - B. the production of norepinephrine
  - C. a heightening of sensitivity to stimuli
  - D. an increase in selectivity with respect to stimuli
  - E. an expansion of the range of states mediated by the brain stem

#### Passage 10

In the United States between 1850 and 1880, the number of farmers continued to increase,

but at a rate lower than that of the general population.

1. Which of the following statements directly contradicts the information presented above?
  - A. The number of farmers in the general population increased slightly in the 30 years between 1850 and 1880.
  - B. The rate of growth of the United States labor force and the rate of growth of the general population rose simultaneously in the 30 years between 1850 and 1880.
  - C. The proportion of farmers in the United States labor force remained constant in the 30 years between 1850 and 1880.
  - D. The proportion of farmers in the United States labor force decreased from 64 percent in 1850 to 49 percent in 1880.
  - E. The proportion of farmers in the general population increased from 68 percent in 1850 to 72 percent in 1880.

#### Passage 11

A ten-year comparison between the United States and the Soviet Union in terms of crop yields per acre revealed that when only planted acreage is compared, Soviet yields were equal to 68 percent of United States yields. When total agricultural acreage (planted acreage plus fallow acreage) is compared, however, Soviet yield was 114 percent of United States yield.

1. From the information above, which of the following can be most reliably inferred about United States and Soviet agriculture during the ten-year period?
  - A. A higher percentage of total agricultural acreage was fallow in the United States than in the Soviet Union.
  - B. The United States had more fallow acreage than planted acreage.
  - C. Fewer total acres of available agricultural land were fallow in the Soviet Union than in the United States.
  - D. The Soviet Union had more planted acreage than fallow acreage.
  - E. The Soviet Union produced a greater volume of crops than the United States produced.

#### Passage 12

For hot desert locations with access to seawater, a new greenhouse design generates freshwater and cool air. Oriented to the prevailing wind, the front wall of perforated cardboard, moistened and cooled by a trickle of seawater pumped in, cools and moistens hot air blowing in. This cool, humidified air accelerates plant growth; little water evaporates from leaves. Though greenhouses normally capture the heat of sunlight, a double-layered roof, the inner layer coated to reflect infrared light outward, allows visible sunlight in but traps solar heat between the two layers. This heated air, drawn down from the roof, then mixes with the greenhouse air as it reaches a second sea-water-moistened cardboard wall at the back of the greenhouse. There the air absorbs more moisture, which then condenses on a metal wall cooled by seawater, and thus distilled water for irrigating the plants collects.



For the following question, consider each of the choices separately and select all that apply.

1. It can be inferred that the process described in the passage makes use of which of the following?

- A. The tendency of hot air to rise
- B. The directional movement of wind
- C. The temperature differential between the sea and the desert

For the following question, consider each of the choices separately and select all that apply.

2. It can be inferred that the greenhouse roof is designed to allow for which of the following?

- A. The avoidance of intense solar heat inside the greenhouse
- B. The entry of sunlight into the greenhouse to make the plants grow
- C. The mixture of heated air with greenhouse air to enhance the collection of moisture

### Passage 13

Many critics of Emily Brontë's novel *Wuthering Heights* see its second part as a counterpoint that comments on, if it does not reverse, the first part, where a romantic reading receives more confirmation. Seeing the two parts as a whole is encouraged by the novel's sophisticated structure, revealed in its complex use of narrators and time shifts.

Granted that the presence of these elements need not argue for an authorial awareness of novelistic construction comparable to that of Henry James, their presence does encourage attempts to unify the novel's heterogeneous parts. However, any interpretation that seeks to unify all of the novel's diverse elements is bound to be somewhat unconvincing. This is not because such an interpretation necessarily stiffens into a thesis (although rigidity in any interpretation of this or of any novel is always a danger), but because *Wuthering Heights* has recalcitrant elements of undeniable power that, ultimately, resist inclusion in an all-encompassing interpretation. In this respect, *Wuthering Heights* shares a feature of *Hamlet*.

1. According to the passage, which of the following is a true statement about the first and second parts of *Wuthering Heights*?

- A. The second part has received more attention from critics.
- B. The second part has little relation to the first part.
- C. The second part annuls the force of the first part.
- D. The second part provides less substantiation for a romantic reading.
- E. The second part is better because it is more realistic.

2. Which of the following inferences about Henry James's awareness of novelistic construction is best supported by the passage?

- A. James, more than any other novelist, was aware of the difficulties of novelistic construction.
- B. James was very aware of the details of novelistic construction.
- C. James's awareness of novelistic construction derived from his reading of Brontë.

D. James's awareness of novelistic construction has led most commentators to see unity in his individual novels.

E. James's awareness of novelistic construction precluded him from violating the unity of his novels.

3. The author of the passage would be most likely to agree that an interpretation of a novel should

A. not try to unite heterogeneous elements in the novel

B. not be inflexible in its treatment of the elements in the novel

C. not argue that the complex use of narrators or of time shifts indicates a sophisticated structure

D. concentrate on those recalcitrant elements of the novel that are outside the novel's main structure

E. primarily consider those elements of novelistic construction of which the author of the novel was aware

For the following question, consider each of the choices separately and select all that apply.

4. The author of the passage suggests which of the following about Hamlet?

A. Hamlet has usually attracted critical interpretations that tend to stiffen into theses.

B. Hamlet has elements that are not amenable to an all-encompassing critical interpretation.

C. Hamlet is less open to an all-encompassing critical interpretation than is *Wuthering Heights*.

#### Passage 14

Whether the languages of the ancient American peoples were used for expressing abstract universal concepts can be clearly answered in the case of Nahuatl. Nahuatl, like Greek and German, is a language that allows the formation of extensive compounds. By the combination of radicals or semantic elements, single compound words can express complex conceptual relations, often of an abstract universal character.

The *tlamatinime* (those who know) were able to use this rich stock of abstract terms to express the nuances of their thought. They also availed themselves of other forms of expression with metaphorical meaning, some probably original, some derived from Toltec **coinages**. Of these forms, the most characteristic in Nahuatl is the juxtaposition of two words that, because they are synonyms, associated terms, or even contraries, complement each other to evoke one single idea. Used metaphorically, the juxtaposed terms connote specific or essential traits of the being they refer to, introducing a mode of poetry as an almost habitual form of expression.

For the following question, consider each of the choices separately and select all that apply.

1. Which of the following can be inferred from the passage regarding present-day research relating to Nahuatl?

A. Some record or evidence of the thought of the *tlamatinime* is available.

B. For at least some Nahuatl expressions, researchers are able to trace their derivation from another ancient American language.

C. Researchers believe that in Nahuatl, abstract universal concepts are always expressed metaphorically.

2. Select the sentence in the passage in which the author introduces a specific Nahuatl mode of expression that is not identified as being shared with certain European languages.

3. In the context in which it appears, “coinages” most nearly means

- A. adaptations
- B. creations
- C. idiosyncrasies
- D. pronunciations
- E. currencies

### Passage 15

At a certain period in Earth’s history, its atmosphere contained almost no oxygen, although plants were producing vast quantities of oxygen. As a way of reconciling these two facts, scientists have hypothesized that nearly all of the oxygen being produced was taken up by iron on Earth’s surface. Clearly, however, **this explanation is inadequate**. New studies show that **the amount of iron on Earth’s surface was not sufficient to absorb anywhere near as much oxygen as was being produced**. Therefore, something in addition to the iron on Earth’s surface must have absorbed much of the oxygen produced by plant life.

1. In the argument given, the two portions in boldface play which of the following roles?

- A. The first is a claim made by the argument in support of a certain position; the second is that position.
- B. The first is a judgment made by the argument about a certain explanation; the second is that explanation.
- C. The first expresses the argument’s dismissal of an objection to the position it seeks to establish; the second is that position.
- D. The first sums up the argument’s position with regard to a certain hypothesis; the second provides grounds for that position.
- E. The first is a concession by the argument that its initial formulation of the position it seeks to establish requires modification; the second presents that position in a modified form.

### Passage 16

Animal signals, such as the complex songs of birds, tend to be costly. A bird, by singing, may forfeit time that could otherwise be spent on other important behaviors such as foraging or resting. Singing may also advertise an individual’s location to rivals or predators and impair the ability to detect their approach. Although these types of cost may be important, discussions of the cost of singing have generally focused on energy costs. Overall the evidence is equivocal: for instance, while Eberhardt found increases in energy consumption during singing for Carolina wrens, Chappell found no effect of crowing on energy consumption in roosters.

To obtain empirical data regarding the energy costs of singing, Thomas examined the relationship between song rate and overnight changes in body mass of male nightingales. Birds store energy as subcutaneous fat deposits or “body reserves”; changes in these reserves can be reliably estimated by measuring changes in body mass. If singing has important energy costs, nightingales should lose more body mass on nights when their song rate is high. Thomas found that nightingales reached a significantly higher body mass at dusk and lost more mass overnight on nights when their song rate was high.

These results suggest that there may be several costs of singing at night associated with body reserves. The increased metabolic cost of possessing higher body mass contributes to the increased overnight mass loss. The strategic regulation of evening body reserves is also likely to incur additional costs, as nightingales must spend more time foraging in order to build up larger body reserves. The metabolic cost of singing itself may also contribute to increased loss of reserves. This metabolic cost may arise from the muscular and neural activity involved in singing or from behaviors associated with singing. For example, birds may expend more of their reserves on thermoregulation if they spend the night exposed to the wind on a song post than if they are in a sheltered roost site. Thomas’s data therefore show that whether or not singing *per se* has an important metabolic cost, metabolic costs associated with singing can have an important measurable effect on a bird’s daily energy budget, at least in birds with high song rates such as nightingales.

1. The primary purpose of the passage is to
  - A. compare the different types of cost involved for certain birds in singing
  - B. question a hypothesis regarding the energy costs of singing for certain birds
  - C. present evidence suggesting that singing has an important energy cost for certain birds
  - D. discuss the benefits provided to an organism by a behavior that is costly in energy
  - E. describe an experiment that supports an alternative model of how birdsong functions

For the following question, consider each of the choices separately and select all that apply.

2. The passage implies that during the day before a night on which a male nightingale’s song rate is high, that nightingale probably does which of the following?
  - A. Expends less of its reserves on thermoregulation than on other days
  - B. Stores more energy as body reserves than on other days
  - C. Hides to avoid predators
3. Select the sentence in the first or second paragraph that presents empirical results in support of a hypothesis about the energy costs of singing.

For the following question, consider each of the choices separately and select all that apply.

4. It can be inferred from the passage that compared with other costs of singing, which of the following is true of the energy costs of singing?
  - A. They are the single greatest cost to an individual bird.
  - B. They have generally received more attention from scientists.

C. They vary less from one bird species to another.

### Passage 17

In the past ten years, there have been several improvements in mountain-climbing equipment. These improvements have made the sport both safer and more enjoyable for experienced climbers. Despite these improvements, however, the rate of mountain-climbing injuries has doubled in the past ten years.

1. Which of the following, if true, best reconciles the apparent discrepancy presented in the passage?
  - A. Many climbers, lulled into a false sense of security, use the new equipment to attempt climbing feats of which they are not capable.
  - B. Some mountain-climbing injuries are caused by unforeseeable weather conditions.
  - C. Mountain climbing, although a dangerous sport, does not normally result in injury to the experienced climber.
  - D. In the past ten years there have been improvements in mountain-climbing techniques as well as in mountain-climbing equipment.
  - E. Although the rate of mountain-climbing injuries has increased, the rate of mountain-climbing deaths has not changed.

### Passage 18

The condition of scholarship devoted to the history of women in photography is confounding. Recent years have witnessed the posthumous **inflation** of the role of the hobbyist Alice Austen into that of a pioneering documentarian while dozens of notable senior figures—Marion Palfi, whose photographs of civil-rights activities in the South served as early evidence of the need for protective legislation, to name one—received scant attention from scholars. And, while Naomi Rosenblum's synoptic *History of Women Photographers* covers the subject through 1920 in a generally useful fashion, once she reaches the 1920s, when the venues, forms, applications, and movements of the medium expanded exponentially, she resorts to an increasingly terse listing of un-familiar names, with approaches and careers summarized in a sentence or two.

1. The author of the passage cites Rosenblum's book most likely in order to
  - A. suggest that the works documented most thoroughly by historians of women in photography often do not warrant that attention
  - B. offer an explanation for the observation that not all aspects of the history of women in photography have received the same level of attention
  - C. provide an example of a way in which scholarship on the history of women in photography has been unsatisfactory
  - D. suggest that employing a strictly chronological approach when studying the history of women in photography may be unproductive
  - E. provide support for the notion that certain personalities in women's photography have



attained undue prominence

For the following question, consider each of the choices separately and select all that apply.

2. Which of the following statements about Marion Palfi is supported by the passage?
- A. Marion Palfi's photographs would have received greater recognition from historians had her work been done in an era when most aspects of photography were static rather than in a state of transition.
  - B. Alice Austen has achieved greater notoriety than has Marion Palfi primarily because the subjects that Austen photographed were more familiar to her contemporaries.
  - C. In addition to providing a record of certain historical events, Marion Palfi's photographs played a role in subsequent events.
3. In the context in which it appears, "inflation" most nearly means
- A. exaggeration
  - B. acquisition
  - C. evaluation
  - D. distortion
  - E. attenuation

#### Passage 19

When marine organisms called phytoplankton photosynthesize, they absorb carbon dioxide dissolved in seawater, potentially causing a reduction in the concentration of atmospheric carbon dioxide, a gas that contributes to global warming. However, phytoplankton flourish only in surface waters where iron levels are sufficiently high. Martin therefore hypothesized that adding iron to iron-poor regions of the ocean could help alleviate global warming. While experiments subsequently confirmed that such a procedure increases phytoplankton growth, field tests have shown that such growth does not significantly lower atmospheric carbon dioxide. When phytoplankton utilize carbon dioxide for photosynthesis, the carbon becomes a building block for organic matter, but the carbon leaks back into the atmosphere when **predators** consume the phytoplankton and respire carbon dioxide.

For the following question, consider each of the choices separately and select all that apply.

1. It can be inferred from the passage that Martin's hypothesis includes which of the following elements?
- A. A correct understanding of how phytoplankton photosynthesis utilizes carbon dioxide
  - B. A correct prediction about how the addition of iron to iron-poor waters would affect phytoplankton growth
  - C. An incorrect prediction about how phytoplankton growth would affect the concentration of atmospheric carbon dioxide
2. It can be inferred that the author of the passage mentions predators primarily in order to

- A. help explain why Martin's hypothesis is incorrect
- B. identify one effect of adding iron to iron-poor waters
- C. indicate how some carbon dioxide is converted to solid organic matter
- D. help account for differences in the density of phytoplankton between different regions of the ocean
- E. point out a factor that was not anticipated by the scientists who conducted the field tests mentioned in the passage

### Passage 20

Sparva, unlike Ireland's other provinces, requires automobile insurers to pay for any medical treatment sought by someone who has been involved in an accident; in the other provinces, insurers pay for nonemergency treatment only if they preapprove the treatment. Clearly, Sparva's less restrictive policy must be the explanation for the fact that altogether insurers there pay for far more treatments after accidents than insurers in other provinces, even though Sparva does not have the largest population.

1. Which of the following, if true, most strengthens the argument?
  - A. Car insurance costs more in Sparva than in any other province.
  - B. The cost of medical care in Sparva is higher than the national average.
  - C. Different insurance companies have different standards for determining what constitutes emergency treatment.
  - D. Fewer insurance companies operate in Sparva than in any other province.
  - E. There are fewer traffic accidents annually in Sparva than in any of the provinces of comparable or greater population.

### Passage 21

*Elements of the Philosophy of Newton*, published by Voltaire in 1738, was an early attempt to popularize the scientific ideas of Isaac Newton. In the book's frontispiece, Voltaire is seen writing at his desk, and over him a shaft of light from heaven, the light of truth, passes through Newton to Voltaire's collaborator Madame du Châtelet; she reflects that light onto the inspired Voltaire. Voltaire's book commanded a wide audience, according to Feingold, because "he was neither a mathematician nor a physicist, but a literary giant aloof from the academic disputes over Newtonian ideas." In other words, Voltaire's amateurism in science "was a source of his contemporary appeal, demonstrating for the first time the accessibility of Newton's ideas to nonspecialists."

For the following question, consider each of the choices separately and select all that apply.

1. Which of the following statements about Voltaire's *Elements of the Philosophy of Newton* can be inferred from the passage?
  - A. Voltaire's literary stature helped secure a large audience for this attempt to popularize Newton's ideas.

B. Voltaire's status as a nonscientist was an advantage in this effort to bring Newtonian science to the attention of the general public.

C. The frontispiece of the book implies that Voltaire's understanding of Newton's ideas was not achieved without assistance.

2. Select the sentence that describes an allegory for Voltaire's acquisition of knowledge concerning Newton's ideas.

### Passage 22

It would be expected that a novel by a figure as prominent as W. E. B. DuBois would attract the attention of literary critics. Additionally, when the novel subtly engages the issue of race, as DuBois' *The Quest of the Silver Fleece* (1911) does, it would be a surprise not to encounter an abundance of scholarly work about that text. But though valuable scholarship has examined DuBois' political and historical thought, his novels have received scant attention. Perhaps DuBois the novelist must wait his turn behind DuBois the philosopher, historian, and editor. But what if the truth lies elsewhere: what if his novels do not speak to current concerns?

1. Which of the following can be inferred from the passage regarding DuBois' *The Quest of the Silver Fleece*?

A. The lack of attention devoted to *The Quest of the Silver Fleece* can be attributed to the fact that it was DuBois' first novel.

B. Among DuBois' novels, *The Quest of the Silver Fleece* is unusual in that it has received scant attention from scholars.

C. *The Quest of the Silver Fleece* has at least one feature that typically would attract the attention of literary scholars.

D. *The Quest of the Silver Fleece*, given its subtle exploration of race, is probably the best novel written by DuBois.

E. Much of the scholarly work that has focused on *The Quest of the Silver Fleece* has been surprisingly critical of it.

2. In the fourth sentence ("Perhaps DuBois . . . editor."), the author of the passage is most likely suggesting that

A. scholars will find that DuBois' novels are more relevant to current concerns than is his work as philosopher, historian, and editor

B. more scholarly attention will be paid to *The Quest of the Silver Fleece* than to DuBois' other novels

C. DuBois' novels will come to overshadow his work as philosopher, historian, and editor

D. DuBois' novels may eventually attract greater scholarly interest than they have to date

E. it will be shown that DuBois' work as philosopher, historian, and editor had an important influence on his work as novelist

3. Which of the following best describes the central issue with which the passage is concerned?

A. The perfunctoriness of much of the critical work devoted to DuBois' novels



- B. The nature of DuBois' engagement with the issue of race in *The Quest of the Silver Fleece*
- C. Whether DuBois' novels are of high quality and relevant to current concerns
- D. The relationship between DuBois the novelist and DuBois the philosopher, historian, and editor
- E. The degree of consideration that has been given to DuBois' novels, including *The Quest of the Silver Fleece*

### Passage 23

Saturn's giant moon Titan is the only planetary satellite with a significant atmosphere and the only body in the solar system other than Earth that has a thick atmosphere dominated by molecular nitrogen. For a long time, the big question about Titan's atmosphere was how it could be so thick, given that Jupiter's moons Ganymede and Callisto, which are the same size as Titan, have none. The conditions for acquiring and retaining a thick nitrogen atmosphere are now readily understood. The low temperature of the protosaturnian nebula enabled Titan to acquire the moderately volatile compounds methane and ammonia (later converted to nitrogen) in addition to water. The higher temperatures of Jupiter's moons, which were closer to the Sun, prevented them from acquiring such an atmosphere.

1. According to the passage, Titan differs atmospherically from Ganymede and Callisto because of a difference in
  - A. rate of heat loss
  - B. proximity to the Sun
  - C. availability of methane and ammonia
  - D. distance from its planet
  - E. size

### Passage 24

Observations of the Arctic reveal that the Arctic Ocean is covered by less ice each summer than the previous summer. If this warming trend continues, within 50 years the Arctic Ocean will be ice free during the summer months. This occurrence would in itself have little or no effect on global sea levels, since the melting of ice floating in water does not affect the water level. However, serious consequences to sea levels would eventually result, because \_\_\_\_\_.

1. Which of the following most logically completes the passage?
  - A. large masses of floating sea ice would continue to form in the wintertime
  - B. significant changes in Arctic sea temperatures would be accompanied by changes in sea temperatures in more temperate parts of the world
  - C. such a warm Arctic Ocean would trigger the melting of massive landbased glaciers in the Arctic
  - D. an ice-free Arctic Ocean would support a very different ecosystem than it does presently
  - E. in the spring, melting sea ice would cause more icebergs to be created and to drift south into

shipping routes

### Passage 25

In a recent study, David Cressy examines two central questions concerning English immigration to New England in the 1630s: what kinds of people immigrated and why? Using contemporary literary evidence, shipping lists, and customs records, Cressy finds that most adult immigrants were skilled in farming or crafts, were literate, and were organized in families. Each of these characteristics sharply distinguishes the 21,000 people who left for New England in the 1630s from most of the approximately 377,000 English people who had immigrated to America by 1700.

With respect to their reasons for immigrating, Cressy does not deny the frequently noted fact that some of the immigrants of the 1630s, most notably the organizers and clergy, advanced religious explanations for departure, but he finds that such explanations usually assumed primacy only in retrospect. When he moves beyond the principal actors, he finds that religious explanations were less frequently offered, and he concludes that most people immigrated because they were recruited by promises of material improvement.

For the following question, consider each of the choices separately and select all that apply.

1. The passage indicates that Cressy would agree with which of the following statements about the organizers among the English immigrants to New England in the 1630s?
  - A. Some of them offered a religious explanation for their immigration.
  - B. They did not offer any reasons for their immigration until some time after they had immigrated.
  - C. They were more likely than the average immigrant to be motivated by material considerations.
2. Select the sentence that provides Cressy's opinion about what motivated English immigrants to go to New England in the 1630s.
3. In the passage, the author is primarily concerned with
  - A. summarizing the findings of an investigation
  - B. analyzing a method of argument
  - C. evaluating a point of view
  - D. hypothesizing about a set of circumstances
  - E. establishing categories

## OG-2

### Passage 1

Fossil bones of the huge herbivorous dinosaurs known as sauropods were first discovered and studied between 1840 and 1880, providing evidence for the gargantuan dimensions of the adults. The shape of sauropod teeth suggested what they ate. But aside from trackways, or series of fossilized footprints — which established that sauropods at least occasionally lived in herds — fossils incorporating direct evidence of other behavior, such as reproductive behavior, have been almost nonexistent. Because no modern land animals even approach sauropod size, scientists have also lacked a living analogue to use as a guide to possible sauropod behavior. Until the recent discovery of fossilized sauropod nesting grounds, scientists were thus uncertain whether sauropods laid eggs or gave birth to live young.

For the following question, consider each of the choices separately and select all that apply.

1. Which of the following can be inferred from the passage regarding the evidence provided by sauropod teeth?
- A. The teeth allow inferences to be made about sauropod social behavior.
  - B. The shape of the teeth indicates that sauropods were herbivorous.
  - C. The teeth have no resemblance to those of any modern land animal.

For the following question, consider each of the choices separately and select all that apply.

2. Which of the following can be inferred from the passage regarding the recently discovered fossilized sauropod nesting grounds?
- A. They are among the few fossils incorporating direct evidence of sauropod behavior.
  - B. They confirm the evidence provided by trackways about sauropod behavior.
  - C. They have forced a reevaluation of theories regarding the nature of sauropod herd behavior.

### Passage 2

Some researchers contend that sleep plays no role in the consolidation of declarative memory (i.e., memory involving factual information). These researchers note that people with impairments in rapid eye movement (REM) sleep continue to lead normal lives, and they argue that if sleep were crucial for memory, then these individuals would have apparent memory deficits. Yet the same researchers acknowledge that the cognitive capacities of these individuals have never been systematically examined, nor have they been the subject of studies of tasks on which performance reportedly depends on sleep. Even if such studies were done, they could only clarify our understanding of the role of REM sleep, not sleep in general.

These researchers also claim that improvements of memory overnight can be explained by the mere passage of time, rather than attributed to sleep. But recent **studies** of memory performance after sleep — including one demonstrating that sleep stabilizes declarative

memories from future interference caused by mental activity during wakefulness — make this claim unsustainable. **Certainly there are memory consolidation processes that occur across periods of wakefulness, some of which neither depend on nor are enhanced by sleep.** But when sleep is compared with wakefulness, and performance is better after sleep, then some benefit of sleep for memory must be acknowledged.

1. The primary purpose of the passage is to
  - A. present the evidence that supports a particular claim regarding REM sleep and memory
  - B. describe how various factors contribute to the effect of sleep on memory
  - C. argue against a particular position regarding sleep's role in memory
  - D. summarize the most prevalent theory regarding sleep and memory
  - E. defend the importance of the consolidation of declarative memory
2. According to the author of the passage, which of the following generalizations about memory and sleep is true?
  - A. There are some memory-consolidation processes that have nothing to do with sleep.
  - B. Sleep is more important to the consolidation of declarative memory than to the consolidation of other types of memory.
  - C. REM sleep is more important to memory consolidation than is non-REM sleep.
  - D. There are significant variations in the amount of sleep that people require for the successful consolidation of memory.
  - E. It is likely that memory is more thoroughly consolidated during wakefulness than during sleep.
3. Which of the following best describes the function of the highlighted sentence (“Certainly . . . sleep”)?
  - A. It provides the reasoning behind a claim about the role of sleep in memory consolidation.
  - B. It explains why a previous claim about sleep and memory is unsustainable.
  - C. It demonstrates why wakefulness is central to the process of declarative memory consolidation.
  - D. It emphasizes the limited role sleep plays in the process of declarative memory consolidation.
  - E. It concedes that the consolidation of declarative memory does not depend entirely on one factor.
4. The importance of the “study” is that it
  - A. reveals the mechanism by which declarative memory is stabilized during sleep
  - B. identifies a specific function that sleep plays in the memory-consolidation process
  - C. demonstrates that some kinds of mental activity can interfere with memory consolidation
  - D. suggests that sleep and wakefulness are both important to memory consolidation
  - E. explains how the passage of time contributes to memory consolidation

### Passage 3

Astronomers found a large body orbiting close to the star Upsilon Andromedae. The

standard theory of planet formation holds that no planet that large could be formed so close to a star, leading to the suggestion that the body is a companion star. A subsequent discovery puts that suggestion in doubt: two other large bodies were found orbiting close to Upsilon Andromedae, and the standard theory of companion stars allows for at most one companion star.

1. Which of the following, if true, most helps to resolve the status of the orbiting body without casting doubt on the two standard theories mentioned?

- A. The smaller a planet orbiting a star is, and the farther away it is from the star, the less likely it is to be discovered.
- B. If a planet's orbit is disturbed, the planet can be drawn by gravity toward the star it is orbiting.
- C. The largest of the bodies orbiting Upsilon Andromedae is the farthest away from the star, and the smallest is the nearest.
- D. It is likely that there are many stars, in addition to Upsilon Andromedae and the Sun, that are orbited by more than one smaller body.
- E. In most cases of companion stars, the smaller companion is much fainter than the larger star.

#### Passage 4

In Gilavia, the number of reported workplace injuries has declined 16 percent in the last five years. However, perhaps part of the decline results from injuries going unreported: many employers have introduced safety-incentive programs, such as prize drawings for which only employees who have a perfect work-safety record are eligible. Since a workplace injury would disqualify an employee from such programs, some employees might be concealing injury, when it is feasible to do so.

1. Which of the following, if true in Gilavia, most strongly supports the proposed explanation?

- A. In the last five years, there has been no decline in the number of workplace injuries leading to immediate admission to a hospital emergency room.
- B. Employers generally have to pay financial compensation to employees who suffer work-related injuries.
- C. Many injuries that happen on the job are injuries that would be impossible to conceal and yet would not be severe enough to require any change to either the employee's work schedule or the employee's job responsibilities.
- D. A continuing shift in employment patterns has led to a decline in the percentage of the workforce that is employed in the dangerous occupations in which workplace injuries are likely.
- E. Employers who have instituted safety-incentive programs do not in general have a lower proportion of reported workplace injuries among their employees than do employers without such programs.

#### Passage 5

The attribution of early-nineteenth-century English fiction is **notoriously problematic**. Fewer than half of new novels published in Britain between 1800 and 1829 had the author's



true name printed on the title page. Most of these titles have subsequently been attributed, either through the author's own acknowledgment of a previously anonymous or pseudonymous work, or through bibliographical research. One important tool available to researchers is the list of earlier works "by the author" often found on title pages. But such lists are as likely to create new confusion as they are to solve old problems. Title pages were generally prepared last in the publication process, often without full authorial assent, and in the last-minute rush to press, mistakes were frequently made.

For the following question, consider each of the choices separately and select all that apply.

1. The passage suggests that which of the following factors contributes to the "notoriously problematic" nature of authorial attribution in early nineteenth-century English fiction?

- A. The unwillingness of any writers to acknowledge their authorship of works that were originally published anonymously or pseudonymously
- B. The possibility that the title page of a work may attribute works written by other authors to the author of that work
- C. The possibility that the author's name printed on a title page is fictitious

For the following question, consider each of the choices separately and select all that apply.

2. The passage suggests that which of the following is frequently true of the title pages of early-nineteenth-century English novels?

- A. The title page was prepared for printing in a hurried manner.
- B. Material on the title page was included without the author's knowledge or approval.
- C. Information on the title page was deliberately falsified to make the novel more marketable

### Passage 6

The more definitions a given noun has, the more valuable is each one. Multiple definitions, each subtly different from all the others, convey multiple **shades** of meaning. They expand the uses of the word; language is enriched, thought is widened, and interpretations increase or dilate to fill the potentialities of association. The very impossibility of absoluteness in the definition of certain nouns adds to the levels of connotation they may reach. The inner life of a writer often says more than most readers can know; the mind of a reader can discover truths that go beyond the intent or perhaps even the comprehension of the writer. And all of it finds expression because a word can mean many things.

1. In the context in which it appears, "shades" most nearly means

- A. reminders
- B. nuances
- C. obscurities
- D. coverings
- E. degrees

2. The passage suggests that a writer's use of nouns that have multiple definitions can have which of the following effects on the relationship between writer and reader?
- A. It can encourage the reader to consider how the writer's life might have influenced the work.
  - B. It can cause the reader to become frustrated with the writer's failure to distinguish between subtle shades of meaning.
  - C. It can allow the reader to discern in a work certain meanings that the writer did not foresee.
  - D. It allows the writer to provide the reader with clues beyond the word itself in order to avoid ambiguity.
  - E. It allows the writer to present unfamiliar ideas to the reader more efficiently.

### Passage 7

Until recently, many anthropologists assumed that the environment of what is now the southwestern United States shaped the social history and culture of the region's indigenous peoples. Building on this assumption, **archaeologists** asserted that adverse environmental conditions and droughts were responsible for the disappearances and migrations of southwestern populations from many sites they once inhabited.

However, such deterministic arguments fail to acknowledge that local environmental variability in the Southwest makes generalizing about that environment difficult. To examine the relationship between environmental variation and sociocultural change in the Western Pueblo region of central Arizona, which indigenous tribes have occupied continuously for at least 800 years, a research team recently reconstructed the climatic, vegetational, and erosional cycles of past centuries. The researchers found it impossible to provide a single, generally applicable characterization of environmental conditions for the region. Rather, they found that local areas experienced different patterns of rainfall, wind, and erosion, and that such conditions had prevailed in the Southwest for the last 1,400 years. Rainfall, for example, varied within and between local valley systems, so that even **adjacent agricultural fields can produce significantly different yields.**

The researchers characterized episodes of variation in southwestern environments by frequency: low-frequency environmental processes occur in cycles longer than one human generation, which generally is considered to last about 25 years, and high-frequency processes have shorter cycles. The researchers pointed out that low-frequency processes, such as fluctuations in stream flow and groundwater levels, would not usually be apparent to human populations. In contrast, high-frequency fluctuations such as seasonal temperature variations are observable and somewhat predictable, so that groups could have adapted their behaviors accordingly. When the researchers compared sequences of sociocultural change in the Western Pueblo region with episodes of low- and high-frequency environmental variation, however, they found no simple correlation between environmental process and sociocultural change or persistence.

Although early Pueblo peoples did protect themselves against environmental risk and uncertainty, they responded variously on different occasions to similar patterns of high-frequency climatic and environmental change. The researchers identified seven major adaptive responses, including increased mobility, relocation of permanent settlements, changes in subsistence foods, and reliance on trade with other groups. These findings suggest that groups'

adaptive choices depended on cultural and social as well as environmental factors and were flexible strategies rather than uncomplicated reactions to environmental change. Environmental conditions mattered, but they were rarely, if ever, sufficient to account for sociocultural persistence and change. Group size and composition, culture, contact with other groups, and individual choices and actions were — barring catastrophes such as floods or earthquakes — more significant for a population's survival than were climate and environment.

1. The passage is primarily concerned with
  - A. explaining why certain research findings have created controversy
  - B. pointing out the flaws in a research methodology and suggesting a different approach
  - C. presenting evidence to challenge an explanation and offering an alternative explanation
  - D. elucidating the means by which certain groups have adapted to their environment
  - E. defending a long-held interpretation by presenting new research findings
2. Which of the following findings would most strongly support the assertion made by the “archaeologists”?
  - A. A population remained in a certain region at least a century after erosion wore away much of the topsoil that sustained grass for their grazing animals.
  - B. The range of a certain group's agricultural activity increased over a century of gradual decrease in annual rainfall.
  - C. As winters grew increasingly mild in a certain region, the nomadic residents of the region continued to move between their summer and winter encampments.
  - D. An agricultural population began to trade for supplies of a grain instead of producing the grain in its own fields as it had in the past.
  - E. A half century of drought and falling groundwater levels caused a certain population to abandon their settlements along a riverbank.
3. The fact that “adjacent agricultural fields can produce significantly different yields” is offered as evidence of the
  - A. unpredictability of the climate and environment of the southwestern United States
  - B. difficulty of producing a consistent food supply for a large population in the Western Pueblo region
  - C. lack of water and land suitable for cultivation in central Arizona
  - D. local climatic variation in the environment of the southwestern United States
  - E. high-frequency environmental processes at work in the southwestern United States
4. It can be inferred from the passage that which of the following activities is NOT an example of a population responding to high-frequency environmental processes?
  - A. Developing watertight jars in which to collect and store water during the rainy season
  - B. Building multistory dwellings in low-lying areas to avoid the flash flooding that occurs each summer
  - C. Moving a village because groundwater levels have changed over the last generation
  - D. Trading with other groups for furs from which to make winter clothes
  - E. Moving one's herds of grazing animals each year between summer and winter pastures



## Passage 8

Arctic sea ice comes in two varieties. Seasonal ice forms in winter and then melts in summer, while perennial ice persists year-round. To the untrained eye, all sea ice looks similar, but by licking it, one can estimate how long a particular piece has been floating round. When ice begins to form in seawater, it forces out salt, which has no place in the crystal structure. As the ice gets thicker, the rejected salt collects in tiny pockets of brine too highly concentrated to freeze. A piece of first-year ice will taste salty. Eventually, if the ice survives, these pockets of brine drain out through **fine**, veinlike channels, and the ice becomes fresher; multiyear ice can even be melted and drunk.

For the following question, consider each of the choices separately and select all that apply.

1. The passage mentions which of the following as being a characteristic of seasonal ice?
  - A. It is similar in appearance to perennial ice.
  - B. It is typically filled with fine, veinlike channels.
  - C. It tastes saltier than perennial ice.
2. In the context in which it appears, “fine” most nearly means
  - A. acceptable
  - B. elegant
  - C. precise
  - D. pure
  - E. small

## Passage 9

Historians credit repeated locust invasions in the nineteenth century with reshaping United States agriculture west of the Mississippi River. Admonished by government entomologists, farmers began to diversify. Wheat had come to nearly monopolize the region, but it was particularly vulnerable to the locusts. In 1873, just before the locusts’ most withering offensive, nearly two-thirds of Minnesota farmland was producing wheat; by the invasions’ last year, that fraction had dropped to less than one-sixth. Farmers learned that peas and beans were far less vulnerable to the insects, and corn was a more **robust** grain than wheat. In addition to planting alternative crops, many farmers turned to dairy and beef production. Although pastures were often damaged by the locusts, these lands were almost always left in better shape than the crops were.

For the following question, consider each of the choices separately and select all that apply.

1. According to the passage, before the recommendations by the government entomologists, which of the following was true about farming west of the Mississippi River?
  - A. Farmers focused primarily on growing wheat.

- B. Peas and beans had not yet been planted in the region.
- C. A relatively small portion of farmland was devoted to crops other than wheat.

2. In the context in which it appears, “robust” most nearly means

- A. crude
- B. demanding
- C. productive
- D. vigorous
- E. rich

### Passage 10

In 1998 the United States Department of Transportation received nearly 10,000 consumer complaints about airlines; in 1999 it received over 20,000. Moreover, the number of complaints per 100,000 passengers also more than doubled. In both years the vast majority of complaints concerned flight delays, cancellations, mishandled baggage, and customer service. Clearly, therefore, despite the United States airline industry’s serious efforts to improve performance in these areas, passenger dissatisfaction with airline service increased significantly in 1999.

1. Which of the following, if true, most seriously weakens the argument?
- A. Although the percentage of flights that arrived on time dropped slightly overall, from 77 percent in 1998 to 76 percent in 1999, some United States airlines’ 1999 on-time rate was actually better than their 1998 on-time rate.
  - B. The number of passengers flying on United States airlines was significantly higher in 1999 than in 1998.
  - C. Fewer bags per 1,000 passengers flying on United States airlines were lost or delayed in 1999 than in 1998.
  - D. The appearance in 1999 of many new Internet sites that relay complaints directly to the Department of Transportation has made filing a complaint about airlines much easier for consumers than ever before.
  - E. Although the number of consumer complaints increased for every major United States airline in 1999, for some airlines the extent of the increase was substantial, whereas for others it was extremely small.

### Passage 11

Nineteenth-century architect Eugène-Emmanuel Viollet-le-Duc contended that Paris’s Notre-Dame cathedral, built primarily in the late twelfth century, was supported from the very beginning by a system of flying buttresses — a series of exterior arches (flyers) and their supports (buttresses) — which permitted the construction of taller vaulted buildings with slimmer walls and interior supports than had been possible previously. **Other commentators** insist, however, that Notre-Dame did not have flying buttresses until the thirteenth or fourteenth century, when they were added to update the building aesthetically and correct its structural flaws. Although post-twelfth-century modifications and renovations complicate efforts to

resolve this controversy — all pre-fifteenth-century flyers have been replaced, and the buttresses have been rebuilt and/or resurfaced — it is nevertheless possible to tell that both the nave and the choir, the church's two major parts, have always had flying buttresses. It is clear, now that nineteenth-century paint and plaster have been removed, that the nave's lower buttresses date from the twelfth century. Moreover, the choir's lower flyers have chevron (zigzag) decoration. Chevron decoration, which was characteristic of the second half of the twelfth century and was out of favor by the fourteenth century, is entirely absent from modifications to the building that can be dated with confidence to the thirteenth century.

1. The passage is primarily concerned with
  - A. tracing the development of a controversy
  - B. discussing obstacles to resolving a controversy
  - C. arguing in support of one side in a controversy
  - D. analyzing the assumptions underlying the claims made in a controversy
  - E. explaining why evidence relevant to a controversy has been overlooked
2. The claim of the “other commentators” suggests that they believe which of the following about Notre-Dame?
  - A. It was the inspiration for many vaulted cathedrals built in the thirteenth and fourteenth centuries.
  - B. Its design flaws were not apparent until flying buttresses were added in the thirteenth or fourteenth century.
  - C. Its flying buttresses are embellished with decoration characteristic of the thirteenth and fourteenth centuries.
  - D. It had been modified in some respects before flying buttresses were added in the thirteenth or fourteenth century.
  - E. It was originally constructed in an architectural style that was considered outmoded by the thirteenth or fourteenth century.
3. The author's argument concerning Notre-Dame's flying buttresses depends on which of the following assumptions about the choir's lower flyers?
  - A. They accurately reproduce the decoration on the choir's original lower flyers.
  - B. They have a type of decoration used exclusively for exterior surfaces.
  - C. They were the models for the choir's original upper flyers.
  - D. They were the models for the nave's original lower flyers.
  - E. They were constructed after the nave's flyers were constructed.

## Passage 12

The average temperature of the lobster-rich waters off the coast of Foerkland has been increasing for some years. In warmer water, lobsters grow faster. In particular, lobster larvae take less time to reach the size at which they are no longer vulnerable to predation by young cod, the chief threat to their survival. Consequently, the survival rate of lobster larvae must be going up, and the lobster population in Foerkland's coastal waters is bound to increase.

1. Which of the following, if true, most seriously weakens the argument?
- A. There are indications that in recent years the fishing fleet operating off the coast of Foerkland has been taking cod at an unsustainably high rate.
  - B. The increase in water temperatures off Foerkland has not been as pronounced as the increase in average soil temperatures in Foerkland.
  - C. Because of their speeded-up growth, lobsters now get large enough to be legal catch before they reach reproductive maturity.
  - D. Even though lobsters grow faster in warmer waters, warmer waters have no effect on the maximum size to which a lobster can eventually grow.
  - E. Cod are a cold-water species, and the increasing water temperatures have caused a northward shift in Foerkland's cod population.

### Passage 13

In *Raisin in the Sun*, Lorraine Hansberry does not reject integration or the economic and moral promise of the American dream; rather, she remains loyal to this dream while looking, realistically, at its incomplete **realization**. Once we recognize this dual vision, we can accept the play's ironic nuances as deliberate social commentaries by Hansberry rather than as the "unintentional" irony that Bigsby attributes to the work. Indeed, a curiously persistent refusal to credit Hansberry with a capacity for intentional irony has led some **critics** to interpret the play's thematic conflicts as mere confusion, contradiction, or eclecticism. Isaacs, for example, cannot easily reconcile Hansberry's intense concern for her race with her ideal of human reconciliation. But the play's complex view of Black self-esteem and human solidarity as compatible is no more "contradictory" than Du Bois' famous, well-considered ideal of ethnic self-awareness coexisting with human unity, or Fanon's emphasis on an ideal internationalism that also accommodates national identities and roles.

1. The author of the passage would probably consider which of the following judgments to be most similar to the reasoning of the "critics"?
- A. The world is certainly flat; therefore, the person proposing to sail around it is unquestionably foolhardy.
  - B. Radioactivity cannot be directly perceived; therefore, a scientist could not possibly control it in a laboratory.
  - C. The painter of this picture could not intend it to be funny; therefore, its humor must result from a lack of skill.
  - D. Traditional social mores are beneficial to culture; therefore, anyone who deviates from them acts destructively.
  - E. Filmmakers who produce documentaries deal exclusively with facts; therefore, a filmmaker who reinterprets particular events is misleading us.
2. In which sentence of the passage does the author provide examples that reinforce an argument against a critical response cited earlier in the passage?
- A. The first sentence ("In *Raisin*...realization")

- B. The second sentence ( "Once we...work")
  - C. The third sentence ("Indeed...eclecticism")
  - D. The fourth sentence ("Isaacs...reconciliation")
  - E. The fifth sentence ("But the...roles")
3. In the context in which it appears, "realization" most nearly means
- A. understanding
  - B. accomplishment
  - C. depiction
  - D. recognition
  - E. discovery

#### Passage 14

According to the conventional view, serfdom in nineteenth-century Russia inhibited economic growth. In this view Russian peasants' status as serfs kept them poor through burdensome taxes in cash, in labor, and in kind; through restrictions on mobility; and through various forms of coercion. Melton, however, argues that serfdom was perfectly compatible with economic growth, because many Russian serfs were able to get around landlords' **rules and regulations. If serfs could pay for passports, they were usually granted permission to leave the estate.** If they could pay the fine, they could establish a separate household; and if they had the resources, they could hire laborers to cultivate the communal lands, while they themselves engaged in trade or worked as migrant laborers in cities.

1. It can be inferred from the passage that the "rules and regulations" affecting serfdom in Russia involved
- A. responsibility for the work needed to accomplish certain defined tasks
  - B. restrictions on freedom of movement
  - C. limitations on the ability to set up an independent household
2. The sentence "If serfs ... estate" has which of the following functions in the passage?
- A. It provides support for an argument presented in the preceding sentence.
  - B. It provides evidence that helps undermine a view introduced in the first sentence.
  - C. It raises a question that the succeeding sentence will resolve.

#### Passage 15

Rain-soaked soil contains less oxygen than does drier soil. The roots of melon plants perform less efficiently under the low-oxygen conditions present in rainsoaked soil. When the efficiency of melon roots is impaired, the roots do not supply sufficient amounts of the proper nutrients for the plants to perform photosynthesis at their usual levels. It follows that melon plants have a lower-than-usual rate of photosynthesis when their roots are in rain-soaked soil. When the photosynthesis of the plants slows, sugar stored in the fruits is drawn off to supply the plants with energy. Therefore, ripe melons harvested after a prolonged period of heavy rain



should be less sweet than other ripe melons.

1. In the argument given, the two portions in boldface play which of the following roles?
  - A. The first states the conclusion of the argument as a whole; the second provides support for that conclusion.
  - B. The first provides support for the conclusion of the argument as a whole; the second provides evidence that supports an objection to that conclusion.
  - C. The first provides support for an intermediate conclusion that supports a further conclusion stated in the argument; the second states that intermediate conclusion.
  - D. The first serves as an intermediate conclusion that supports a further conclusion stated in the argument; the second states the position that the argument as a whole opposes.
  - E. The first states the position that the argument as a whole opposes; the second supports the conclusion of the argument.

#### Passage 16

In the 1980s, neuroscientists studying the brain processes underlying our sense of conscious will compared subjects' judgments regarding their subjective will to move (W) and actual movement (M) with objective electroencephalographic activity called readiness potential, or RP. As expected, W preceded M: subjects consciously perceived the intention to move as preceding a conscious experience of actually moving. This might seem to suggest an appropriate correspondence between the sequence of subjective experiences and the sequence of the underlying events in the brain. But researchers actually found a surprising **temporal** relation between subjective experience and objectively measured neural events: in direct contradiction of the classical conception of free will, neural preparation to move (RP) preceded conscious awareness of the intention to move (W) by hundreds of milliseconds.

1. Based on information contained in the passage, which of the following chains of events would most closely conform to the classical conception of free will?
  - A. W followed by RP followed by M
  - B. RP followed by W followed by M
  - C. M followed by W followed by RP
  - D. RP followed by M followed by W
  - E. RP followed by W and M simultaneously
2. In the context in which it appears, "temporal" most nearly means
  - A. secular
  - B. mundane
  - C. numerical
  - D. physiological
  - E. chronological
3. The author of the passage mentions the classical conception of free will primarily in order to
  - A. argue that earlier theories regarding certain brain processes were based on false assumptions

- B. suggest a possible flaw in the reasoning of neuroscientists conducting the study discussed in the passage
- C. provide a possible explanation for the unexpected results obtained by neuroscientists
- D. cast doubt on neuroscientists' conclusions regarding the temporal sequence of brain processes
- E. indicate the reason that the results of the neuroscientists' study were surprising

### Passage 17

In early-twentieth-century England, it was fashionable to claim that only a completely new style of writing could **address** a world undergoing unprecedented transformation— just as one literary critic recently claimed that only the new “aesthetic of exploratory excess” can **address** a world under- going well, you know. Yet in early-twentieth century England, T. S. Eliot, a man fascinated by the “presence” of the past, wrote the most innovative poetry of his time. The lesson for today’s literary community seems obvious: a reorientation toward tradition would benefit writers no less than readers. But if our writers and critics indeed respect the novel’s rich tradition (as they claim to), then why do they disdain the urge to tell an exciting story?

1. The author of the passage suggests that present-day readers would particularly benefit from which of the following changes on the part of present-day writers and critics?
  - A. An increased focus on the importance of engaging the audience in a narrative
  - B. Modernization of the traditional novelistic elements already familiar to readers
  - C. Embracing aspects of fiction that are generally peripheral to the interest of readers
  - D. A greater recognition of how the tradition of the novel has changed over time
  - E. A better understanding of how certain poets such as Eliot have influenced fiction of the present time
2. In the context of the passage as whole, “address” is closest in meaning to
  - A. reveal
  - B. belie
  - C. speak to
  - D. direct attention toward
  - E. attempt to remediate

### Passage 18

Electric washing machines, first introduced in the United States in 1925, significantly reduced the amount of time spent washing a given amount of clothes, yet the average amount of time households spent washing clothes increased after 1925. This increase is partially accounted for by the fact that many urban households had previously sent their clothes to professional laundries. But the average amount of time spent washing clothes also increased for rural households with no access to professional laundries.

1. Which of the following, if true, most helps to explain why the time spent washing clothes

increased in rural areas?

- A. People with access to an electric washing machine typically wore their clothes many fewer times before washing them than did people without access to electric washing machines.
- B. Households that had sent their clothes to professional laundries before 1925 were more likely than other households to purchase an electric washing machine when they became available.
- C. People living in urban households that had previously sent their clothes to professional laundries typically owned more clothes than did people living in rural households.
- D. The earliest electric washing machines required the user to spend much more time beside the machine than do modern electric washing machines.
- E. In the 1920s and 1930s the proportion of rural households with electricity was smaller than the proportion of urban households with electricity.

### Passage 19

The nearly circular orbits of planets in our solar system led scientists to expect that planets around other stars would also reside in circular orbits. However, most known extrasolar planets reside in highly elongated, not circular, orbits. Why? The best clue comes from comets in our solar system. Comets formed in circular orbits but were gravitationally flung into their present-day elliptical orbits when they ventured too close to planets. Astronomers suspect that pairs of planets also engage in this **slingshot activity**, leaving them in disturbed, elliptical orbits. If two planets form in close orbits, one will be scattered inward (toward its star), the other outward. They will likely then travel close enough to neighboring planets to disturb their orbits also.

For the following question, consider each of the choices separately and select all that apply.

1. According to the passage, which of the following factors help account for the elliptical shape of the orbits of extrasolar planets?
  - A. The planets' formation in close proximity to other planets
  - B. The gravitational influence of planets whose original orbits have been disturbed
  - C. The gravitational influence of comets

For the following question, consider each of the choices separately and select all that apply.

2. The passage suggests that two planets formed in close orbits that engaged in "slingshot activity" would be likely to
  - A. deflect away from each other
  - B. change the shape of each other's orbit
  - C. affect the orbits of any neighboring planets

### Passage 20

Even after numerous products made with artificial sweeteners became available, sugar consumption per capita continued to rise. Now manufacturers are introducing fat-free versions of various foods that they claim have the taste and texture of the traditional high-fat versions.



Even if the manufacturers' claim is true, given that the availability of sugar-free foods did not reduce sugar consumption, it is unlikely that the availability of these fat-free foods will reduce fat consumption.

1. Which of the following, if true, most seriously undermines the argument?
  - A. Several kinds of fat substitute are available to manufacturers, each of which gives a noticeably different taste and texture to products that contain it.
  - B. The products made with artificial sweeteners did not taste like products made with sugar.
  - C. The foods brought out in sugar-free versions did not generally have reduced levels of fat, but many of the fat-free versions about to be introduced are low in sugar.
  - D. People who regularly consume products containing artificial sweeteners are more likely than others to consume fat-free foods.
  - E. Not all foods containing fat can be produced in fat-free versions.

### Passage 21

Recent studies of sediment in the North Atlantic's deep waters reveal possible cyclical patterns in the history of Earth's climate. The rock fragments in these sediments are too large to have been transported there by ocean currents; they must have reached their present locations by traveling in large icebergs that floated long distances from their point of origin before melting. Geologist Gerard

Bond noticed that some of the sediment grains were stained with iron oxide, evidence that they originated in locales where glaciers had overrun outcrops of red sandstone. Bond's detailed analysis of deep-water sediment cores showed changes in the mix of sediment sources over time: the proportion of these red-stained grains fluctuated back and forth from lows of 5 percent to highs of about 17 percent, and these fluctuations occurred in a nearly regular 1,500-year cycle.

Bond hypothesized that the alternating cycles might be evidence of changes in ocean-water circulation and therefore in Earth's climate. He knew that the sources of the red-stained grains were generally closer to the North Pole than were the places yielding a high proportion of "clean" grains. At certain times, apparently, more icebergs from the Arctic Ocean in the far north were traveling south well into the North Atlantic before melting and shedding their sediment.

Ocean waters are constantly moving, and water temperature is both a cause and an effect of this movement. As water cools, it becomes denser and sinks to the ocean's bottom. During some periods, the bottom layer of the world's oceans comes from cold, dense water sinking in the far North Atlantic. This causes the warm surface waters of the Gulf Stream to be pulled northward. Bond realized that during such periods, the influx of these warm surface waters into northern regions could cause a large proportion of the icebergs that bear red grains to melt before traveling very far into the North Atlantic. But sometimes the ocean's dynamic changes, and waters from the Gulf Stream do not travel northward in this way. During these periods, surface waters in the North Atlantic would generally be colder, permitting icebergs bearing red-stained grains to travel farther south in the North Atlantic before melting and depositing their sediment.

The onset of the so-called Little Ice Age (1300-1860), which followed the Medieval Warm

Period of the eighth through tenth centuries, may represent the most recent time that the ocean's dynamic changed in this way. If ongoing climate-history studies support Bond's hypothesis of 1,500-year cycles, scientists may establish a major natural rhythm in Earth's temperatures that could then be extrapolated into the future. Because the midpoint of the Medieval Warm Period was about A.D. 850, an extension of Bond's cycles would place the midpoint of the next warm interval in the twenty-fourth century.

1. According to the passage, which of the following is true of the rock fragments contained in the sediments studied by Bond?

- A. The majority of them are composed of red sandstone.
- B. They must have reached their present location over 1,500 years ago.
- C. They were carried by icebergs to their present location.
- D. Most of them were carried to their present location during a warm period in Earth's climatic history.
- E. They are unlikely to have been carried to their present location during the Little Ice Age.

2. In the final paragraph of the passage, the author is concerned primarily with

- A. answering a question about Earth's climatic history
- B. pointing out a potential flaw in Bond's hypothesis
- C. suggesting a new focus for the study of ocean sediments
- D. tracing the general history of Earth's climate
- E. discussing possible implications of Bond's hypothesis

3. According to the passage, Bond hypothesized that which of the following circumstances would allow red-stained sediment grains to reach more southerly latitudes?

- A. Warm waters being pulled northward from the Gulf Stream
- B. Climatic conditions causing icebergs to melt relatively quickly
- C. Icebergs containing a higher proportion of iron oxide than usual
- D. The formation of more icebergs than usual in the far north
- E. The presence of cold surface waters in the North Atlantic

4. It can be inferred from the passage that in sediment cores from the North Atlantic's deep waters, the portions that correspond to the Little Ice Age

- A. differ very little in composition from the portions that correspond to the Medieval Warm Period
- B. fluctuate significantly in composition between the portions corresponding to the 1300s and the portions corresponding to the 1700s
- C. would be likely to contain a proportion of red-stained grains closer to 17 percent than to 5 percent
- D. show a much higher proportion of red-stained grains in cores extracted from the far north of the North Atlantic than in cores extracted from further south
- E. were formed in part as a result of Gulf Stream waters having been pulled northward

## Passage 22

As an example of the devastation wrought on music publishers by the photocopier, one executive noted that for a recent choral festival with 1,200 singers, the festival's organizing committee purchased only 12 copies of the music published by her company that was performed as part of the festival.

1. Which of the following, if true, most seriously weakens the support the example lends to the executive's contention that music publishers have been devastated by the photocopier?
  - A. Only a third of the 1,200 singers were involved in performing the music published by the executive's company.
  - B. Half of the singers at the festival had already heard the music they were to perform before they began to practice for the festival.
  - C. Because of shortages in funding, the organizing committee of the choral festival required singers to purchase their own copies of the music performed at the festival.
  - D. Each copy of music that was performed at the festival was shared by two singers.
  - E. As a result of publicity generated by its performance at the festival, the type of music performed at the festival became more widely known.

## Passage 23

A tall tree can transport a hundred gallons of water a day from its roots deep underground to the treetop. Is this movement propelled by pulling the water from above or pushing it from below? The pull mechanism has long been favored by most scientists. First proposed in the late 1800s, the theory relies on a property of water not commonly associated with fluids: its tensile strength. Instead of making a clean break, water evaporating from treetops tugs on the remaining water molecules, with that tug extending from molecule to molecule all the way down to the roots. The tree itself does not actually push or pull; all the energy for lifting water comes from the sun's evaporative power.

1. Which of the following statements is supported by the passage?
  - A. The pull theory is not universally accepted by scientists.
  - B. The pull theory depends on one of water's physical properties.
  - C. The pull theory originated earlier than did the push theory.
2. The passage provides information on each of the following EXCEPT
  - A. when the pull theory originated
  - B. the amount of water a tall tree can transport
  - C. the significance of water's tensile strength in the pull theory
  - D. the role of the sun in the pull theory
  - E. the mechanism underlying water's tensile strength

## Passage 24

While the influence of British magazines in shaping public opinion predates the nineteenth century, it was during the 1800s that mass distribution became possible and an explosion in periodical readership occurred, vastly increasing magazines' opinion-shaping powers. The role of magazines as arbiters of nineteenth-century taste is seen in their depictions of the London theater. The magazines **accorded** some legitimacy to East End working-class theaters that mirrored the format of the fashionable West End theaters serving middle- and upper-class audiences. However, the magazines also depicted music halls—which competed for patronage with all theaters—as places where crass entertainment corrupted spectators' taste and morals. Finally, they suggested that popular demand for substandard fare created a market unfriendly to higher expressions of dramatic art.

1. The author of the passage attributes the influence of British periodicals in shaping public opinion in the nineteenth century in part to
  - A. a growing public interest in reading opinion pieces
  - B. an increase in the relative number of readers from the middle and upper classes
  - C. changes in the way in which magazines were distributed
  - D. magazines' increased coverage of theater and popular entertainment
  - E. changes in magazine format that attracted a wider readership
2. The author of the passage mentions East End working-class theaters primarily in order to
  - A. illustrate a point about the ability of magazines to sway public opinion
  - B. contrast the kinds of entertainment presented in East End and West End theaters
  - C. make a point about how spectators' tastes influenced the offerings at different kinds of theaters
  - D. explain how magazines chose which kinds of entertainment to cover
  - E. identify factors that helped make certain theaters fashionable
3. In the context in which it appears, "accorded" most nearly means
  - A. reconciled
  - B. revealed
  - C. granted
  - D. verified
  - E. maintained

### Passage 25

Historian F. W. Maitland observed that legal documents are the best—indeed, often the only—available evidence about the economic and social history of a given period. Why, then, has it taken so long for historians to focus systematically on the civil (noncriminal) law of early modern (sixteenth- to eighteenth-century) England? Maitland offered one reason: the subject requires researchers to “master an extremely formal system of pleading and procedure.” Yet the complexities that confront those who would study such materials are not wholly different from those recently surmounted by historians of criminal law in England during the same period. Another possible explanation for historians' neglect of the subject is their **widespread**

**assumption** that most people in early modern England had little contact with civil law. If that were so, the history of legal matters would be of little relevance to general historical scholarship. But recent research suggests that civil litigation during the period involved artisans, merchants, professionals, shopkeepers, and farmers, and not merely a narrow, propertied, male elite. Moreover, the later sixteenth and early seventeenth centuries saw an extraordinary explosion in civil litigation by both women and men, making this the most litigious era in English history on a per capita basis.

1. The passage suggests that the history of criminal law in early modern England differs from the history of civil law during that same period in that the history of criminal law
  - A. is of more intellectual interest to historians and their readers
  - B. has been studied more thoroughly by historians
  - C. is more relevant to general social history
  - D. involves the study of a larger proportion of the population
  - E. does not require the mastery of an extremely formal system of procedures
2. The author of the passage mentions the occupations of those involved in civil litigation in early modern England most likely in order to
  - A. suggest that most historians' assumptions about the participants in the civil legal system during that period are probably correct
  - B. support the theory that more people participated in the civil legal system than the criminal legal system in England during that period
  - C. counter the claim that legal issues reveal more about a country's ordinary citizens than about its elite
  - D. illustrate the wide range of people who used the civil legal system in England during that period
  - E. suggest that recent data on people who participated in early modern England's legal system may not be correct
3. The author of the passage suggests which of the following about the "widespread assumption"?
  - A. Because it is true, the history of civil law is of as much interest to historians focusing on general social history as to those specializing in legal history.
  - B. Because it is inaccurate, the history of civil law in early modern England should enrich the general historical scholarship of that period.
  - C. It is based on inaccurate data about the propertied male elite of early modern England.
  - D. It does not provide a plausible explanation for historians' failure to study the civil law of early modern England.
  - E. It is based on an analogy with criminal law in early modern England.

## Passage 26

Geese can often be seen grazing in coastal salt marshes. Unfortunately, their intense grazing removes the grassy covering, exposing marsh sediment; this increases evaporation,



which in turn increases salt concentration in marsh sediments. Because of this increased concentration, regrowth of plants is minimal, leading to increased erosion, which leads to a decrease in the fertile topsoil, leading to even less regrowth. In time, the salt marsh becomes a mudflat. This process challenges one of the most widely held beliefs about the dynamics of salt-marsh ecosystems: supposedly, consumers such as geese do not play a large role in controlling the productivity of marsh systems. Rather, the **standard view** claims, marshes are controlled by bottom-up factors, such as nutrients and physical factors.

1. The author discusses “the standard view” most likely in order to identify a view that
  - A. explains the occurrence of the chain of events described in the passage
  - B. provides a summary of the chain of events described in the passage
  - C. is called into question by the chain of events described in the passage
  - D. advocates reassessment of the widely held belief described in the passage
  - E. is undermined by the widely held belief described in the passage
2. According to the passage, which of the following is a widely held belief about geese?
  - A. They are not often seen grazing in coastal salt marshes.
  - B. They are not the primary consumers in salt-marsh ecosystems.
  - C. They play only a minor role in the productivity of salt-marsh ecosystems.
  - D. They are the primary determinants of which resources will thrive in coastal salt marshes.
  - E. They control the productivity of salt-marsh ecosystems through a bottom-up process.

#### Passage 27

Last year, Mayor Stephens established a special law-enforcement task force with the avowed mission of eradicating corruption in city government. The mayor’s handpicked task force has now begun prosecuting a dozen city officials. Since all of these officials were appointed by Mayor Bixby, Mayor Stephens’ predecessor and longtime political foe, it is clear that those being prosecuted have been targeted because of their political affiliations.

1. Which of the following, if true, most weakens the editorial’s argument?
  - A. Complaints of official corruption in city government have decreased since the anticorruption task force began operating.
  - B. Former mayor Bixby did not publicly oppose Mayor Stephens’ establishment of the anticorruption task force.
  - C. Almost all of the officials who have served in city government for any length of time are appointees of Mayor Bixby.
  - D. All of the members of the anticorruption task force had other jobs in city government before the task force was formed.
  - E. During the last mayoral election campaign, then-Mayor Bixby hotly disputed the current mayor’s claim that there was widespread corruption in city government.

#### Passage 28



The decrease in responsiveness that follows continuous stimulation (adaptation) is common to all sensory systems, including olfaction. With continued exposure to chronically present ambient odors, individuals' perception of odor intensity is greatly reduced. Moreover, these perceptual changes can be profound and durable. It is commonly reported that following extended absences from the odorous environment, reexposure may still fail to elicit perception at the original intensity.

Most **research on olfactory adaptation** examines relatively transient changes in stimulus detection or perceived intensity—rarely exceeding several hours and often less—but because olfactory adaptation can be produced with relatively short exposures, these durations are sufficient for investigating many parameters of the phenomenon. However, exposures to odors in natural environments often occur over far longer periods, and the resulting adaptations may differ qualitatively from short-term olfactory adaptation. For example, studies show that even brief periods of odorant stimulation produce transient reductions in receptors in the olfactory epithelium, a process termed “**receptor fatigue**.” Prolonged odor stimulation, however, could produce more long-lasting reductions in response, possibly involving structures higher in the central nervous system pathway.

1. According to the passage, the phenomenon of olfactory adaptation may cause individuals who are reexposed to an odorous environment after an extended absence to
  - A. experience a heightened perception of the odor
  - B. perceive the odor as being less intense than it was upon first exposure
  - C. return to their original level of perception of the odor
  - D. exhibit a decreased tolerance for the odorous environment
  - E. experience the phenomenon of adaptation in other sensory systems
2. The passage asserts which of the following about the exposures involved in the “research on olfactory adaptation”?
  - A. The exposures are of long enough duration for researchers to investigate many aspects of olfactory adaptation.
  - B. The exposures have rarely consisted of reexposures following extended absences from the odorous environment.
  - C. The exposures are intended to reproduce the relatively transient olfactory changes typical of exposures to odors in natural environments.
  - D. Those exposures of relatively short duration are often insufficient to produce the phenomenon of receptor fatigue in study subjects.
  - E. Those exposures lasting several hours produce reductions in receptors in the olfactory epithelium that are similar to the reductions caused by prolonged odor stimulation.
3. The author of the passage discusses “receptor fatigue” primarily in order to
  - A. explain the physiological process through which long-lasting reductions in response are thought to be produced
  - B. provide an example of a process that subjects would probably not experience during a prolonged period of odorant stimulation
  - C. help illustrate how the information gathered from most olfactory research may not be

sufficient to describe the effects of extended exposures to odors

D. show how studies of short-term olfactory adaptation have only accounted for the reductions in response that follow relatively brief absences from an odorous environment

E. qualify a statement about the severity and duration of the perceptual changes caused by exposure to chronically present ambient odors

### Passage 29

Among academics involved in the study of Northern Renaissance prints (reproducible graphic artworks), an **orthodox position** can be said to have emerged. This position regards Renaissance prints as **passive** representations of their time—documents that reliably record contemporary events, opinions, and beliefs—and therefore as an important means of accessing the popular contemporary consciousness. In contrast, pioneering studies such as those by

Scribner and Moxey take a strikingly different approach, according to which Northern Renaissance prints were purposeful, active, and important shaping forces in the communities that produced them. Scribner, for example, contends that religious and political prints of the German Reformation (ca.1517–1555) functioned as popular propaganda: tools in a vigorous campaign aimed at altering people’s behavior, attitudes, and beliefs.

For the following question, consider each of the choices separately and choose all that apply.

1. The passage suggests that an adherent to the “orthodox position” would agree with which of the following statements?

- A. Northern Renaissance prints should be regarded as passive representations of their time.
- B. Northern Renaissance prints were part of a campaign aimed at altering contemporary thinking.
- C. Northern Renaissance prints provide reliable records of contemporary events, opinions, and beliefs.

2. Replacement of the word “passive” with which of the following words results in the least change in meaning for the passage?

- A. disinterested
- B. submissive
- C. flaccid
- D. supine
- E. unreceptive

### Passage 30

Recently an unusually high number of dolphins have been found dead of infectious diseases, and most of these had abnormally high tissue concentrations of certain compounds that, even in low concentrations, reduce dolphins’ resistance to infection. The only source of these compounds in the dolphins’ environment is boat paint. Therefore, since dolphins rid their bodies of the compounds rapidly once exposure ceases, their mortality rate should decline

rapidly if such boat paints are banned.

1. Which of the following, if true, most strengthens the argument?

- A. The levels of the compounds typically used in boat paints today are lower than they were in boat paints manufactured a decade ago.
- B. In high concentrations, the compounds are toxic to many types of marine animals.
- C. The compounds break down into harmless substances after a few months of exposure to water or air.
- D. High tissue levels of the compounds have recently been found in some marine animals, but there is no record of any of those animals dying in unusually large numbers recently.
- E. The compounds do not leach out of the boat paint if the paint is applied exactly in accordance with the manufacturer's directions.

### Passage 31

The work of English writer Aphra Behn (1640–1689) changed markedly during the 1680s, as she turned from writing plays to writing prose narratives. According to literary critic Rachel Carnell, most scholars view this change as primarily motivated by financial considerations: earning a living by writing for the theatre became more difficult in the 1680s, so Behn tried various other types of prose genres in the hope of finding another lucrative medium. In fact, a long epistolary scandal novel that she wrote in the mid-1680s sold quite well. Yet, as Carnell notes, Behn did not repeat this approach in her other prose works; instead, she turned to writing shorter, more serious novels, even though only about half of these were published during her lifetime. Carnell argues that Behn, whose stage productions are primarily comedies, may have turned to an emerging literary form, the novel, in a conscious attempt to criticize, and subvert for her own ends, the conventions and ideology of a well-established form of her day, the dramatic tragedy.

Carnell acknowledges that Behn admired the skill of such contemporary writers of dramatic tragedy as John Dryden, and that Behn's own comic stage productions displayed the same partisanship for the reigning Stuart monarchy that characterized most of the politically oriented dramatic tragedies of her day. However, Carnell argues that Behn took issue with the way in which these writers and plays defined the nature of tragedy. As prescribed by Dryden, tragedy was supposed to concern a heroic man who is a public figure and who undergoes a fall that evokes pity from the audience. Carnell points out that Behn's tragic novels focus instead on the plight of little-known women and the private world of the household; even in her few novels featuring male protagonists, Behn insists on the importance of the crimes these otherwise heroic figures commit in the domestic sphere. Moreover, according to Carnell, Behn questioned the view promulgated by monarchist dramatic tragedies such as Dryden's: that the envisioned "public" political ideal—passive obedience to the nation's king—ought to be mirrored in the private sphere, with family members wholly obedient to a male head of household. Carnell sees Behn's novels not only as rejecting the model of patriarchal and hierarchical family order, but also as warning that insisting on such a parallel can result in real tragedy befalling the members of the domestic sphere. According to Carnell, Behn's choice of literary form underscores the differences between her own approach to crafting a tragic story

and that taken in the dramatic tragedies, with their **artificial distinction** between the public and private spheres. Behn's novels engage in the political dialogue of her era by demonstrating that the good of the nation ultimately encompasses more than the good of the public figures who rule it.

1. The passage is primarily concerned with
  - A. tracing how Behn's view of the nature of tragedy changed over time
  - B. explaining one author's view of Behn's contribution to the development of an emerging literary form
  - C. differentiating between the early and the late literary works of Behn
  - D. contrasting the approaches to tragedy taken by Behn and by Dryden
  - E. presenting one scholar's explanation for a major development in Behn's literary career
2. The passage suggests that Carnell sees Behn's novels featuring male protagonists as differing from dramatic tragedies such as Dryden's featuring male protagonists in that the former
  - A. depict these characters as less than heroic in their public actions
  - B. emphasize the consequences of these characters' actions in the private sphere
  - C. insist on a parallel between the public and the private spheres
  - D. are aimed at a predominantly female audience
  - E. depict family members who disobey these protagonists
3. The passage suggests that Carnell believes Behn held which of the following attitudes about the relationship between the private and public spheres?
  - A. The private sphere is more appropriate than is the public sphere as the setting for plays about political events.
  - B. The structure of the private sphere should not replicate the hierarchical order of the public sphere.
  - C. Actions in the private sphere are more fundamental to ensuring the good of the nation than are actions in the public sphere.
  - D. Crimes committed in the private sphere are likely to cause tragedy in the public sphere rather than vice versa.
  - E. The private sphere is the mirror in which issues affecting the public sphere can most clearly be seen.
4. It can be inferred from the passage that the "artificial distinction" refers to the
  - A. practice utilized in dramatic tragedies of providing different structural models for the public and the private spheres
  - B. ideology of many dramatic tragedies that advocate passive obedience only in the private sphere and not in the public sphere
  - C. convention that drama ought to concern events in the public sphere and that novels ought to concern events in the private sphere
  - D. assumption made by the authors of conventional dramatic tragedies that legitimate tragic action occurs only in the public sphere
  - E. approach taken by the dramatic tragedies in depicting male and female characters differently,

depending on whether their roles were public or private

### Passage 32

Computers cannot accurately predict climate change unless the mathematical equations fed into them adequately capture the natural meteorological processes they are intended to simulate. Moreover, there are processes that influence climate, such as modifications in land use, that scientists do not know how to simulate. The failure to incorporate such a process into a computer climate model can lead the model astray because a small initial effect can initiate a feedback cycle: a perturbation in one variable modifies a second variable, which in turn **amplifies** the original disturbance. An increase in temperature, for example, can boost the moisture content of the atmosphere, which then causes further warming because water vapor is a greenhouse gas.

For the following question, consider each of the choices separately and choose all that apply.

1. The passage mentions which of the following as adversely affecting the accuracy of computer predictions of climate change?
  - A. Failure to allow for some of the processes that influence climate
  - B. Mathematical equations that do not accurately reflect natural phenomena
  - C. An overestimate of the role of feedback cycles
2. In the context in which it appears, “amplifies” most nearly means
  - A. exacerbates
  - B. explicates
  - C. expatiates
  - D. adds detail to
  - E. makes louder

### Passage 33

Extensive housing construction is underway in Pataska Forest, the habitat of a large population of deer. Because deer feed at the edges of forests, these deer will be attracted to the spaces alongside the new roads being cut through Pataska Forest to serve the new residential areas. Consequently, once the housing is occupied, the annual number of the forest’s deer hit by cars will be much higher than before construction started.

1. Which of the following is an assumption on which the argument depends?
  - A. The number of deer hit by commercial vehicles will not increase significantly when the housing is occupied.
  - B. Deer will be as attracted to the forest edge around new houses as to the forest edge alongside roads.
  - C. In years past, the annual number of deer that have been hit by cars on existing roads through Pataska Forest has been very low.



- D. The development will leave sufficient forest to sustain a significant population of deer.
- E. No deer hunting will be allowed in Pataska Forest when the housing is occupied.

### Passage 34

While chocolate was highly esteemed in Mesoamerica, where it originated, its adoption in Europe was initially slow. There is a common belief that Europeans needed to “transform” chocolate to make it appetizing. However, while Spaniards did put sugar, which was unknown to indigenous Americans, into chocolate beverages, this additive was not completely innovative. Mesoamericans were already sweetening chocolate with honey, and the step from honey to sugar—increasingly more available than honey because of expanding sugar plantations in the Americas—is a small one. Likewise, although Spaniards adjusted Mesoamerican recipes by using European spices, the spices chosen suggest an attempt to replicate harder-to-find native flowers. There is no indication the Spaniards deliberately tried to change the original flavor of chocolate.

1. The author of the passage refers to the use of honey primarily to
  - A. identify the origins of an additive previously untried by Europeans
  - B. present an example of a product that was unknown to Europeans
  - C. correct the misapprehension that Mesoamericans used a sweetener that was not available in Europe
  - D. provide an example of an ingredient that was in the process of being displaced by a substitute
  - E. explain why the Spanish use of sugar in chocolate was not a sign of a need to transform chocolate
2. Which sentence presents a misconception that the passage challenges?
  - A. The second (“There is ... appetizing”)
  - B. The third (“However ... innovative”)
  - C. The fourth (“Mesoamericans ... one”)
  - D. The fifth (“Likewise ... flowers”)
  - E. The sixth (“There is ... chocolate”)

### Passage 35

Biologists generally agree that birds and dinosaurs are somehow related to one another. The agreement ends there. Hypotheses regarding dinosaurian and avian evolution are unusually diverse—and often at odds with one another. Confusion consequently reigns over a broad spectrum of unanswered questions dealing with avian origins and the biology of dinosaurs and early birds. This confusion has been exacerbated by a paucity of serious attempts to synthesize and evaluate available data on the details of avian and dinosaurian evolution. Too often, the job of summarizing current knowledge of these subjects has fallen to well-meaning but naïve lay authors or reporters. Consequently, both the public and the scientific community have often been misled by widespread dissemination of **sensational** but weakly founded hypotheses.



For the following question, consider each of the choices separately and choose all that apply.

1. The passage suggests that which of the following could help remedy the problem described in the final sentence

- A. An article written by a biologist for the general public summarizing current theories about avian and dinosaurian evolution
- B. A close examination of available data on avian and dinosaurian evolution
- C. A new hypothesis regarding the connection between avian and dinosaurian evolution

2. In the context in which it appears, “sensational” most nearly means

- A. dramatic
- B. false
- C. excellent
- D. eminent
- E. horrifying

### Passage 36

A portrait type that appeared with relentless frequency in eighteenth-century England is the familiar image of a gentleman poised with one hand inside his partially unbuttoned waistcoat. Standard interpretations of this portrait posture offer observations of correspondence—demonstrating either that it mirrors actual social behavior or that it borrows from classical statuary. Such explanations, however, illuminate neither the source of this curious convention nor the reason for its popularity. **It is true that in real life the “hand-in” was a common stance for elite men.** Still, there were other ways of comporting the body that did not become winning portrait formulas. And even if the “hand-in” portrait does resemble certain classical statues, what accounts for the adoption of this particular pose?

1. In the context of the passage as a whole, the primary function of the highlighted sentence (“It is ... men”) is to

- A. emphasize the influence of a particular social class on the conventions of eighteenth-century English portraiture
- B. account for the origin of a particular type of behavior frequently represented in eighteenth-century English portraiture
- C. acknowledge a historical basis for two competing hypotheses about a particular portrait type
- D. question the relevance of certain evidence frequently cited in support of an explanation for a particular portrait type
- E. concede that one explanation for the prevalence of a particular portrait type has a basis in fact

For the following question, consider each of the choices separately and choose all that apply.

2. Which of the following might provide an explanation for the popularity of hand-in portraits that would satisfy the author of the passage?

- A. An eighteenth-century English etiquette manual discussing the social implications of the “hand-in” stance
- B. A comprehensive catalogue of eighteenth-century English portraits that showed what proportion of portraits depicted gentlemen in the “hand-in” stance
- C. A passage from an eighteenth-century English novel in which a gentleman considers what stance to adopt when his portrait is painted

## PP2-1

## Passage 1

Historians frequently employ probate inventories—list of possessions compiled after a person's death—to estimate standard of living. Because these inventories were taken by amateur assessors according to unwritten rules, they are sometimes unreliable. One way to check their accuracy is to compare them to archaeological records. A study of records from the state of Delaware in the eighteenth century found that while very few inventories listed earthenware, every excavation contained earthenware. Earthenware may have gone unlisted simply because it was inexpensive. But if it was so commonplace, why was it listed more often for wealthy households? Perhaps the more earthenware people had, the more likely appraisers were to note it. A few bowls could easily be absorbed into another category, but a roomful of earthenware could not.

1. Select the sentence that provides support for an answer to a question in the passage.

## PP2-2

### Passage 1

Objectively, of course, the various ecosystems that sustain life on the planet proceed independently of human agency, just as they operated before the hectic ascendancy of Homo sapiens. But it is also true that it is difficult to think of a single such system that has not, for better or worse, been substantially modified by human culture. Nor is this simply the work of the industrial centuries. It has been happening since the days of ancient Mesopotamia. It is coeval with the origins of writing, and has occurred throughout our social existence. And it is this irreversibly modified world, from the polar caps to the equatorial forests, that is all the nature we have.

For the following question, consider each of the choices separately and choose all that apply.

1. It can be inferred from the passage that the author would agree with which of the following statements?
  - A. Over time, the impact of human culture on the natural world has been largely benign.
  - B. It is a mistake to think that the natural world contains many areas of pristine wilderness.
  - C. The only substantial effects that human agency has had on ecosystems have been inadvertent.
2. The author mentions “ancient Mesopotamia” primarily in order to
  - A. provide some geographical and historical context for an earlier claim about the ascendancy of Homo sapiens
  - B. support the idea that the impact of human culture on nature was roughly the same in the ancient world as in later times
  - C. identify a place where the relationship between culture and nature was largely positive
  - D. emphasize the extent to which the modification of nature by human culture preceded the industrial period
  - E. make a connection between the origins of writing and other aspects of human cultural development

### Passage 2

The most plausible justification for higher taxes on automobile fuel is that fuel consumption harms the environment and thus adds to the costs of traffic congestion. But the fact that burning fuel creates these “negative externalities” does not imply that no tax on fuel could ever be too high. Economics is precise about the tax that should, in principle, be levied to deal with negative

externalities: the tax on a liter of fuel should be equal to the harm caused by using a liter of fuel. If the tax is more than that, its costs (including the inconvenience to those who would rather have used their cars) will exceed its benefits (including any reduction in congestion and pollution).

1. In the context in which it appears, “exceed” most nearly means
  - A. outstrip
  - B. magnify
  - C. delimit
  - D. offset
  - E. supplant
  
2. Which of the following best characterizes the function of the indicated portion of the passage?
  - A. It restates a point made earlier in the passage.
  - B. It provides the evidence on which a theory is based.
  - C. It presents a specific application of a general principle.
  - D. It summarizes a justification with which the author disagrees.
  - E. It suggests that the benefits of a particular strategy have been overestimated.

## PP2-3

### Passage 1

Some universities have created environmental studies programs that can be marketed to prospective students but that suffer from too little administrative support, limited faculty resources, and a lack of careful deliberation over the hard choices. In the short term, this institutional strategy can pay rich dividends: at minimal expense a university can lay claim to an environmental studies program and attract new students or accommodate the interest of existing ones, perhaps with the full intention of bringing additional resources to bear in later years. As the number of students in these skeleton programs grows, however, the flimsy administrative and curricular scaffolding begins to buckle, leading to an anything-goes strategy that degenerates into curricular incoherence.

1. The passage implies which of the following about the relationship between students and environmental studies programs?

- A. Students new to a university are more likely to be aware of environmental studies programs than existing students are.
- B. Students prefer curricular incoherence in environmental studies programs to rigid administrative decision making.
- C. The curricular flexibility of an environmental studies program is an attraction for new students.
- D. If a university offers an environmental studies program, then students will enroll in it.
- E. New students will guarantee the success of an environmental studies program.

2. The passage suggests which of the following about “skeleton programs” in environmental studies?

- A. They may fail to attract prospective students.
- B. At some point they are likely to collapse into curricular confusion.
- C. They may pay rich dividends in short term.

### Passage 2

In 1996, scientists caused an experimental flood of the Colorado River by releasing water from Glen Canyon Dam above the Grand Canyon. Because an unintentional flood in 1983 had reduced the river's introduced population of nonnative trout, biologists were concerned that the experimental flood would wash many fish, native and nonnative, downstream. To find out, biologists placed nets in the river. The nets captured a few more trout than they would have without the flood but did not show substantial flushing of native fish, whose ancestors had, after all, survived many larger natural floods. The biologists surmised that the native species (and most of the trout) must have quickly retreated to protected areas along the riverbank.



1. Which of the following, if true, would make the information presented in the passage compatible with the experimental flood's in fact having caused substantial flushing of native fish?

- A. Many of the native fish are too small to have been captured by the nets.
- B. There had been and increase from normal levels in the native fish population prior to the flood.
- C. The native fish in the Colorado are much stronger swimmers than taxonomically similar fish in other rivers in the region.
- D. The unintentional flood of 1983 had not affected the river's trout population as much as was originally thought.
- E. The experimental flood raised the water level much less than a typical natural flood would have.

2. According to the passage, which of the following is true of the Colorado River flood of 1983?

- A. The flood had a negative effect on the river's trout population.
- B. There was substantial flushing of the river's native fish population during the flood.
- C. Unlike the 1996 flood, it was not deliberately caused for scientific research purposes.

## PP2-4

## Passage 1

Music critics have consistently defined James P. Johnson as a great early jazz pianist, originator of the 1920s Harlem “stride” style, and an important blues and jazz composer. In addition, however, Johnson was an innovator in classical music, composing symphonic music that incorporated American, and especially African American, traditions.

Such a blend of musical elements was not entirely new: by 1924 both Milhaud and Gershwin had composed classical works that incorporated elements of jazz. Johnson, a serious musician more experienced than most classical composers with jazz, blues, spirituals, and popular music, was particularly suited to expand Milhaud’s and Gershwin’s experiments. In 1927 he completed his first large-scale work, the blues- and jazz-inspired *Yamekraw*, which included borrowings from spirituals and Johnson’s own popular songs. *Yamekraw*, premiered successfully in Carnegie Hall, was major achievement for Johnson, becoming his most frequently performed extended work. It demonstrated vividly the possibility of assimilating contemporary popular music into the symphonic tradition.

1. Which of the following best describes the organization of the passage?
- A. A historical overview is presented, and a particular phenomenon is noted and analyzed.
  - B. A popular belief is challenged, and a rival interpretation is presented and supported.
  - C. A common viewpoint is presented and modified, and the modification is supported.
  - D. An observation is made and rejected, and evidence for that rejection is presented.
  - E. A common claim is investigated, and an alternative outlook is analyzed and criticized.

For the following question, consider each of the choices separately and select all that apply.

2. The author suggests which of the following about most classical composers of the early 1920s?
- A. They were strongly influenced by the musical experiments of the Milhaud and Gershwin.
  - B. They had little working familiarity with such forms of American music as jazz, blues, and popular songs.
  - C. They made few attempts to introduce innovations into the classical symphonic tradition.
3. The passage states that Johnson composed all of the following EXCEPT:
- A. jazz works
  - B. popular songs
  - C. symphonic music
  - D. spirituals
  - E. blues pieces

## Passage 2

The dusky salamander lives only in slow-moving streams where organic debris settles and accumulates. In almost all places in New York State where dusky salamanders used to live, suburban development has cleared uplands and put down asphalt. As a result, rainwater now runs directly into streams, causing increased flow that slows the accumulation of organic sediments. Therefore, it is probably the increased flow caused by suburban development that is responsible for the dusky salamander's virtual disappearance from New York State.

1. Which of the following, if true, most strongly supports the argument?
- A. Since 1980 the suburban population of New York State has grown ten times faster than its urban population.
  - B. Dusky salamanders have disappeared in the past ten years from some suburban areas of New York State that were originally developed more than a century ago and that have not experienced significant development for decades.
  - C. The two-line salamander, a species that lives in both slow- and swift-moving waters, continues to thrive in streams in New York State from which dusky salamanders have disappeared.
  - D. Suburban development in New York State contributes significantly to pollution of local streams with lawn fertilizers that are poisonous to most small aquatic animals.
  - E. Much of the suburban development in New York State has been occurring in areas that never provided prime habitat for dusky salamanders.

## 官方 150 题

## Passage 1

Ragwort was accidentally introduced to New Zealand in the late nineteenth century and, like so many invading foreign species, quickly became a pest. By the 1920s, the weed was rampant. What made matters worse was that its proliferation coincided with sweeping changes in agriculture and a massive shift from sheep farming to dairying. Ragwort contains the poison in dilute form. Livestock generally avoid grazing where ragwort is growing, but they will do so once it displaces grass and clover in their pasture. Though sheep can eat it for months before showing any signs of illness, if cattle eat it they sicken quickly and fatality can even result.

1. The passage suggests that the proliferation of ragwort was particularly ill-timed because it
- A. coincided with and exacerbated a decline in agriculture.
  - B. took place in conditions that enabled the ragwort to spread faster than it otherwise would have done.
  - C. led to an increase in the amount of toxic compounds contained in the plants.
  - D. prevented people from producing honey that could be eaten safely.
  - E. had consequences for livestock that were more dramatic than they otherwise would have been.

For the following question, consider each of the choices separately and select all that apply.

2. The passage implies which of the following about the problems ragwort poses to dairy farmers?
- A. Milk produced by cows that eat ragwort causes illness in humans who drink it.
  - B. Ragwort can supplant the plants normally eaten by cattle.
  - C. Cattle, unlike sheep, are unable to differentiate between ragwort and healthy grazing.

## Passage 2

Despite the fact that the health-inspection procedure for catering establishments are more stringent than those for ordinary restaurant, more of the cases of food poisoning reported to the city health department were brought on by banquets served by catering services than were brought on by restaurant meals.

1. Which of the following, if true, helps explain the apparent paradox in the statement above?
- A. A significantly large number of people eat in restaurants than attend catered banquets in any given time period.
  - B. Catering establishments know how many people they expect to serve, and therefore are less likely than restaurants to have, and serve, leftover foods, a major source of food poisoning.
  - C. Many restaurant provide catering services for banquets in addition to serving individual meals.

D. The number of reported food-poisoning cases at catered banquets is unrelated to whether the meal is served on the caterer's or the client's premises.

E. People are unlikely to make a connection between a meal they have eaten and a subsequent illness unless the illness strikes a group who are in communication with one another.

### Passage 3

African American newspapers in the 1930s faced many hardships. For instance, knowing that buyers of African American papers also bought general-circulation papers, advertisers of consumer products often ignored African American publications. Advertisers' discrimination did free the African American press from advertiser domination. Editors could print politically charged material more readily than could the large national dailies, which depended on advertisers' ideological approval to secure revenues. Unfortunately, it also made the selling price of Black papers much higher than that of general-circulation dailies. Often as much as two-thirds of publication costs had to come from subscribers or subsidies from community politicians and other interest groups. And despite their editorial freedom, African American publishers often felt compelled to print a disproportionate amount of sensationalism, sports, and society news to boost circulation.

For the following question, consider each of the choices separately and select all that apply.

1. The passage suggests that if advertisers had more frequently purchased advertising in African American newspapers, then which of the following might have resulted?

A. African American newspapers would have given more attention to sports and society news than they did.

B. African American newspapers would have been available at lower prices than large national dailies were.

C. African American newspapers would have experienced constraints on their content similar to those experienced by large national dailies.

2. The author of the passage suggests which of the following about the "advertisers" mentioned in the passage?

A. They assumed that advertising in African American newspapers would not significantly increase the sales of their products.

B. They failed to calculate accurately the circulation of African American newspapers.

C. They did not take African Americans' newspaper reading into account when making decisions about where to advertise.

D. They avoided African American newspapers partly because of their sensationalism.

E. They tried to persuade African American newspapers to lower the rates charged for advertising.

### Passage 4

Years ago, consumers in Frieland began paying an energy tax in the form of two Frieland

pennies for each unit of energy consumed that came from nonrenewable sources. Following the introduction of this energy tax, there was a steady reduction in the total yearly consumption of energy from nonrenewable sources.

1. If the statements in the passage are true, then which of the following must on the basis of them be true?

- A. There was a steady decline in the yearly revenues generated by the energy tax in Frieland.
- B. There was a steady decline in the total amount of energy consumed each year in Frieland.
- C. There was a steady increase in the use of renewable energy source in Frieland.
- D. The revenues generated by the energy tax were used to promote the use of energy from renewable sources.
- E. The use of renewable energy sources in Frieland greatly increased relative to the use of nonrenewable energy sources.

#### Passage 5

In a plausible but speculative scenario, oceanographer Douglas Martinson suggests that temperature increases caused by global warming would not significantly affect the stability of the Antarctic environment, where sea ice forms on the periphery of the continent in the autumn and winter and mostly disappears in the summer. True, less sea ice would form in the winter because global warming would cause temperature to rise. However, Martinson argues, the effect of a warmer atmosphere may be offset as follows. The formation of sea ice causes the concentration of salt in surface water to increase; less sea ice would mean a smaller increase in the concentration of salt. Less salty surface waters would be less dense and therefore less likely to sink and stir up deep water. The deep water, with all its stored heat, would rise to the surface at a slower rate. Thus, although the winter sea-ice cover might decrease, the surface waters would remain cold enough so that the decrease would not be excessive.

1. It can be inferred from the passage that which of the following is true of the surface waters in the current Antarctic environment?

- A. They are more affected by annual fluctuations in atmospheric temperatures than they would be if they were less salty.
- B. They are less salty than they would be if global warming were to occur.
- C. They are more likely to sink and stir up deep waters than they would be if atmospheric temperatures were to increase.
- D. They are able to offset some of the effects of global warming beyond the Antarctic region.
- E. They are less affected by the temperature of deep water than they would be if atmospheric temperatures were to increase.

2. The passage suggests that Martinson believes which of the following about deep waters in the Antarctic region?

- A. They rise to the surface more quickly than they would if global warming were to occur.
- B. They store heat that will exacerbate the effects of increases in atmospheric temperatures.
- C. They would be likely to be significantly warmed by an increase in atmospheric temperatures.



- D. They would be more salty than they currently are if global warming were to occur.
- E. They are less likely to be stirred up when surface waters are intensely salty than when surface waters are relatively unsalty.

3. According to the passage, which of the following is true about the sea ice that surrounds the Antarctic continent?

- A. The amount of sea ice that forms in the winter has been declining.
- B. Most of the sea ice that forms in the winter remains intact in the summer.
- C. Even small changes in the amount of sea ice dramatically affect the temperature of the surface waters.
- D. Changes in the amount of sea ice due to global warming would significantly affect the stability of the Antarctic environment.
- E. Changes in the amount of sea ices affect the degree of saltiness of the surface waters.

#### Passage 6

That sales can be increased by the presence of sunlight within a store has been shown by the experience of the only Savefast department store with a large skylight. The skylight allows sunlight into half of the store, reducing the need for artificial light. The rest of the store uses only artificial light. Since the store opened two years ago, the departments on the sunlit side have had substantially higher sales than the other.

- 1. Which of the following, if true, most strengthens the argument?
- A. On particularly cloudy days, more artificial light is used to illuminate the part of the store under the skylight.
- B. When the store is open at night, the departments in the part of the store under the skylight have sales that are no higher than those of other departments.
- C. Many customers purchase items from departments in both parts of the store on a single shopping trip.
- D. Besides the skylight, there are several significant architectural differences between the two parts of the store.
- E. The departments in the part of the store under the skylight are the departments that generally have the highest sales in other stores in the Savefast chain.

#### Passage 7

While the best sixteenth-century Renaissance scholars mastered the classics of ancient Roman literature in the original Latin and understood them in their original historical context, most of the scholar's educated contemporaries knew the classics only from school lessons on selected Latin texts. These were chosen by Renaissance teachers after much deliberation, for works written by and for the sophisticated adults of pagan Rome were not always considered suitable for the Renaissance young: the central Roman classics refused (as classics often do) to teach appropriate morality and frequently suggested the opposite. Teachers accordingly made students' need, not textual and historical accuracy, their supreme interest, chopping dangerous

texts into short phrases, and using these to impart lessons extemporaneously on a variety of subjects, from syntax to science. Thus, I believe that a modern reader cannot know the associations that a line of ancient Roman poetry or prose had for any particular educated sixteenth-century reader.

1. The passage is primarily concerned with discussing the
  - A. unsuitability of the Roman classics for the teaching of morality
  - B. approach that sixteenth-century scholars took to learning the Roman classics
  - C. effect that the Roman classics had on educated people in the Renaissance
  - D. way in which the Roman classics were taught in the sixteenth-century
  - E. contrast between the teaching of the Roman classics in the Renaissance and the teaching of the Roman classics today
2. The information in the passage suggests that which of the following would most likely result from a student's having studied the Roman classics under a typical sixteenth-century teacher?
  - A. The student recalls a line of Roman poetry in conjunction with a point learned about grammar.
  - B. The student argues that a Roman poem about gluttony is not morally offensive when it is understood in its historical context.
  - C. The student is easily able to express thoughts in Latin.
  - D. The student has mastered large portions of the Roman classics.
  - E. The student has a sophisticated knowledge of Roman poetry but little knowledge of Roman prose.
3. Which of the following, if true, would most seriously weaken the assertion made in the passage concerning what a modern reader cannot know?
  - A. Some modern readers are thoroughly familiar with the classics of ancient Roman literature because they majored in classics in college or obtained doctoral degrees in classics.
  - B. Some modern readers have learned which particular works of Roman literature were taught to students in the sixteenth century.
  - C. Modern readers can, with some effort, discover that sixteenth-century teachers selected some seemingly dangerous classical texts while excluding other seemingly innocuous texts.
  - D. Copies of many of the classical texts used by sixteenth-century teachers, including marginal notes describing the oral lessons that were based on the texts, can be found in museums today.
  - E. Many of the writings of the best sixteenth-century Renaissance scholars have been translated from Latin and are available to modern readers.

### Passage 8

In humans, the pilomotor reflex leads to the response commonly known as goose bumps, and this response is widely considered to be vestigial—that is, something formerly having a greater physiological advantage than at present. It occurs when the tiny muscle at the base of a hair follicle contracts, pulling the hair upright. In animals with feathers, fur, or quills, this creates a layer of insulating warm air or a reason for predators to think twice before attacking. But

human hair is too puny to serve these functions. Goose bumps in humans may, however, have acquired a new role. Like flushing—another thermoregulatory (heat-regulating) mechanism—goose bumps have become linked with emotional responses, notably fear, rage, or the pleasure of, say, listening to beautiful music. They may thus serve as a signal to others.

1. In explaining the “new role” that goose bumps in human may have acquired, the author assumes which of the following?
  - A. Emotional responses in humans can be triggered by thermoregulatory mechanisms.
  - B. The perceptibility of emotional responses to other human offers some kind of benefit.
  - C. If human hair were more substantial, goose bumps would not have acquired a new role.
  - D. Goose bumps in animals with feathers, fur, or quills may also be linked to emotional responses.
  - E. In humans, goose bumps represent an older physiological response than flushing.
2. Which of the following best describes the primary function of the next-to-last sentence (“Like ... music”)?
  - A. It makes a distinction between two types of mechanisms.
  - B. It corrects a common misconception about the role of goose bumps in humans.
  - C. It suggests reasons for the connection between emotional responses and goose bumps in human.
  - D. It suggests that flushing and goose bumps signal the same emotional state.
  - E. It helps explain a possible role played by goose bumps in humans.

### Passage 9

*The passage is adapted from material published in 2001.*

Frederick Douglass was unquestionably the most famous African American of the nineteenth century; indeed, when he died in 1895 he was among the most distinguished public figures in the United States. In his study of Douglass’ career as a major figure in the movement to abolish slavery and as a spokesman for Black rights, Waldo Martin has provoked controversy by contending that Douglass also deserves a prominent place in the intellectual history of the United States because he exemplified so many strand of nineteenth-century thought: romanticism, idealism, individualism, liberal humanism, and an unshakable belief in progress. But this very argument provides ammunition for those who claim that most of Douglass’ ideas, being so representative of their time, are now obsolete. Douglass’ vision of the future as a melting pot in which all racial and ethnic differences would dissolve into “a composite American nationality” appears from the pluralist perspective of many present-day intellectuals to be not only utopian but even wrongheaded. Yet there is a central aspect of Douglass’ thought that seems not in the least bit dated or irrelevant to current concerns. He has no rival in the history of the nineteenth-century United States as an insistent and effective critic of the doctrine of innate racial inequality. He not only attacked racist ideas in his speeches and writings, but he offered his entire career and all his achievements as living proof that racists were wrong in their belief that one race could be inherently superior to another.

While Martin stresses Douglass' antiracist egalitarianism, he does not adequately explain how this aspect of Douglass' thought fits in with his espousal of the liberal Victorian attitudes that many present-day intellectuals consider to be naïve and outdated. The fact is that Douglass was attracted to these democratic-capitalist ideals of his time because they could be used to attack slavery and the doctrine of White supremacy. His favorite rhetorical strategy was to expose the hypocrisy of those who, while professing adherence to the ideals of democracy and equality of opportunity, condoned slavery and racial discrimination. It would have been strange indeed if he had not embraced liberal idealism, because it proved its worth for the cause of racial equality during the national crisis that eventually resulted in emancipation and citizenship for African Americans. These points may seem obvious, but had Martin given them more attention, his analysis might have constituted a more convincing rebuttal to those critics who dismiss Douglass' ideology as a relic of the past. If one accepts the proposition that Douglass' deepest commitment was to Black equality and that he used the liberal ideals of his time as weapons in the fight for that cause, then it is hard to fault him for seizing the best weapons at hand.

1. The passage as a whole can best be described as doing which of the following?
  - A. Explaining Douglass' emergence as a major figure in the movement to abolish slavery.
  - B. Tracing the origins of Douglass' thought in nineteenth-century romanticism, idealism, and liberal humanism
  - C. Analyzing Douglass' speeches and writings from a modern, pluralist perspective
  - D. Criticizing Martin for failing to stress the contradiction between Douglass' principles and the liberal Victorian attitudes of his day
  - E. Formulating a response to who consider Douglass' political philosophy to be archaic and irrelevant
2. It can be inferred that the "present-day intellectuals" believed that
  - A. although Douglass used democratic-capitalist ideals to attack slavery and racial inequality, he did not sincerely believe in those ideas.
  - B. the view that Douglass was representative of the intellectual trends of his time is obsolete
  - C. Douglass' opposition to the doctrine of innate racial inequality is irrelevant to current concern
  - D. Douglass' commitment to Black equality does not adequately account for his naïve attachment to quaint liberal Victorian political views.
  - E. Douglass' goal of ultimately doing away with all racial and ethnic differences is neither achievable nor desirable
3. According to the passage, Douglass used which of the following as evidence against the doctrine of innate racial inequality?
  - A. His own life story
  - B. His version of a composite American nationality
  - C. The hypocrisy of self-professed liberal idealists
  - D. The inevitability of the emancipation of African Americans
  - E. The fact that most prominent intellectuals advocated the abolition of slavery

4. Each of the following is mentioned in the passage as an element of Douglass' ideology EXCEPT

- A. idealism
- B. egalitarianism
- C. capitalism
- D. pluralism
- E. humanism

#### Passage 10

The plant called the scarlet gilia can have either red or white flowers. It had long been thought that hummingbirds, which forage by day, pollinate its red flowers and that hawkmoths, which forage at night, pollinate its white flowers. To try to show that this pattern of pollination by color exists, Scientists recently covered some scarlet gilia flowers only at night and others only by day: plants with red flowers covered at night became pollinated; plants with white flowers covered by day became pollinated.

1. Which of the following, if true, would be additional evidence to suggest that hummingbirds are attracted to the red flowers and hawkmoths to the white flowers of the scarlet gilia?

- A. Uncovered scarlet gilia flowers, whether red or white, became pollinated at approximately equal rates.
- B. Some red flowers of the scarlet gilia that remained uncovered at all times never became pollinated.
- C. White flowers of the scarlet gilia that were covered at night became pollinated with greater frequency than white flowers of the scarlet gilia that were left uncovered.
- D. Scarlet gilia plants with red flowers covered by day and scarlet gilia plants with white flowers covered at night remained unpollinated.
- E. In late August, when most of the hummingbirds had migrated but hawkmoths were still plentiful, red scarlet gilia plants produced fruits more frequently than they had earlier in the season.

#### Passage 11

Supernovas in the Milky Ways are the likeliest source for most of the cosmic rays reaching Earth. However, calculations show that supernovas cannot produce ultrahigh-energy cosmic rays (UHECRs), which have energies exceeding  $10^{18}$  electron volts. It would seem sensible to seek the source of these in the universe's most conspicuous energy factories: quasars and gamma-ray bursts billions of light-years away from Earth. But UHECRs tend to collide with photons of the cosmic microwave background---pervasive radiation that is relic of the early universe. The odds favor a collision every 20 million light-years, each collision costing 20 percent of the cosmic ray's energy. Consequently, no cosmic ray traveling much beyond 100 million light-years can retain the energy observed in UHECRs.



1. It can be inferred that the author of the passage would agree with which of the follow about the origin of UHECRs that reach Earth?
  - A. The origin is something other than supernovas in the Milky Way.
  - B. The origin is most likely something other than very distant quasars or gamma-ray bursts.
  - C. The origin is most likely no more than a little over 100 million light-years away from Earth.
2. In the context of the author's argument, the last sentence performs which of the following functions?
  - A. It explains a criterion that was employed earlier in the argument.
  - B. it shows that an apparently plausible position is actually self-contradictory.
  - C. It is a conclusion drawn in the course of refuting a potential explanation.
  - D. It overturns an assumption on which an opposing position depends.
  - E. It states the main conclusion that the author is seeking to establish.

### Passage 12

The massive influx of women cyclists—making up at least a third of the total market—was perhaps the most striking and profound social consequence of the mid- 1890s cycling boom. Although the new, improved bicycle had appealed immediately to a few privileged women, its impact would have been modest had it not attracted a greater cross section of the female population. It soon became apparent that many of these pioneer women bicyclists had not taken up the sport as an idle pastime. Rather, they saw cycling as a noble cause to be promoted among all women as a means to improve the general female condition. Not only would cycling encourage healthy outdoor exercise, they reasoned, it would also hasten long-overdue dress reform. To feminists, the bicycle affirmed nothing less than the dignity and equality of women.

For the following question, consider each of the choices separately and select all that apply.

1. Which of the following statements about women cyclists is supported by the passage?
  - A. The newly improved bicycle of the mid-1890s appealed mostly to women in a privileged position.
  - B. The great majority of women in the mid-1890s considered cycling an idle pastime.
  - C. Women bicyclists promoted cycling as a healthy form of outdoor exercise.

For the following question, consider each of the choices separately and select all that apply.

2. Which of the following does the passage suggest about pioneer women cyclists?
  - A. They saw cycling as a means to promote the advancement of women.
  - B. They argued that cycling would encourage women to get involved in a variety of noble causes.
  - C. They provided several reasons for a cross section of the female population to use the bicycle.
3. Which of the following best describes the function of the second sentence (“Although... population”)?



- A. It corrects a common misconception regarding the use of the bicycle in the mid- 1890s
- B. It elaborates on a claim made in the previous sentence regarding a social consequence of the cycling boom
- C. It provides a context in which to understand the increased popularity of bicycle riding among privileged women.
- D. It explains why cycling attracted such a significant cross section of women.
- E. It describes the demographic characteristics of the consumer market for bicycles in the mid-1890s.

### Passage 13

What causes a helix in nature to appear with either a dextral ("right-handed," or clockwise) twist or a sinistral ("left-handed," or counterclockwise) twist is one of the most intriguing puzzles in the science of form. Most spiral-shaped snail species are predominantly dextral. But at one time, handedness (twist direction of the shell) was equally distributed within some snail species that have become predominantly dextral or, in a few species, predominantly sinistral. What mechanisms control handedness and keep left-handedness rare?

It would seem unlikely that evolution should discriminate against sinistral snails if sinistral and dextral snails are exact mirror images, for any disadvantage that a sinistral twist in itself could confer on its possessor is almost inconceivable. But left- and right-handed snails are not actually true mirror images of one another. Their shapes are noticeably different. Sinistral rarity might, then, be a consequence of possible disadvantages conferred by these other **concomitant structural features**. In addition, perhaps left- and right-handed snails cannot mate with each other, having incompatible twist directions. Presumably an individual of the rarer form would have relative difficulty in finding a mate of the same hand, thus keeping the rare form rare or creating geographically separated right- and left-handed populations.

But this evolutionary mechanism combining dissymmetry, anatomy, and chance does not provide an adequate explanation of why right-handedness should have become predominant. It does not explain, for example, why the infrequent unions between snails of opposing hands produce fewer offspring of the rarer than the commoner form in species where each parent contributes equally to handedness. Nor does it explain why, in a species where one parent determines handedness, a brood is not exclusively right- or left-handed when the offspring would have the same genetic predisposition. In the European pond snail *Lymnaea peregra*, a predominantly dextral species whose handedness is maternally determined, a brood might be expected to be exclusively right- or left-handed—and this often occurs. However, some broods possess a few snails of the opposing hand, and in predominantly sinistral broods, the incidence of dextrality is surprisingly high.

Here, the evolutionary theory must defer to a theory based on an explicit developmental mechanism that can favor either right- or left-handedness. In the case of *Lymnaea peregra*, studies indicate that a dextral gene is expressed during egg formation; i.e., before egg fertilization, the gene produces a protein, found in the cytoplasm of the egg, that controls the pattern of cell division and thus handedness. In experiments, an injection of cytoplasm from dextral eggs changes the pattern of sinistral eggs, but an injection from sinistral eggs does not influence dextral eggs. One explanation for the differing effects is that all *Lymnaea peregra*

eggs begin left-handed but most switch to being right-handed. Thus, the path to a solution to the puzzle of handedness in all snails appears to be as twisted as the helix itself.

1. Which of the following would serve as an example of “concomitant structural features” that might disadvantage a snail of the rarer form?

- A. A shell and body that are an exact mirror image of a snail of the commoner form
- B. A smaller population of the snails of the rarer form
- C. A chip or fracture in the shell caused by an object falling on it
- D. A pattern on the shell that better camouflages it
- E. A smaller shell opening that restricts mobility and ingestion relative to that of a snail of the commoner form

2. The second paragraph of the passage is primarily concerned with offering possible reasons why

- A. it is unlikely that evolutionary mechanisms could discriminate against sinistral snails
- B. sinistrality is relatively uncommon among snail species
- C. dextral and sinistral populations of a snail species tend to intermingle
- D. a theory based on a developmental mechanism inadequately accounts for the predominance of dextrality across snail species
- E. dextral snails breed more readily than sinistral snails, even within predominantly sinistral populations

3. Which of the following accurately describes the relationship between the evolutionary and developmental theories discussed in the passage?

- A. Although the two theories reach the same conclusion, each is based on different assumptions.
- B. They present contradictory explanations of the same phenomenon.
- C. The second theory accounts for certain phenomena that the first cannot explain.
- D. The second theory demonstrates why the first is valid only for very unusual, special cases.
- E. They are identical and interchangeable in that the second theory merely restates the first in less technical terms.

4. It can be inferred from the passage that a predominantly sinistral snail species might stay predominantly sinistral for each of the following reasons EXCEPT for

- A. a developmental mechanism that affects the cell-division pattern of snails
- B. structural features that advantage dextral snails of the species
- C. a relatively small number of snails of the same hand for dextral snails of the species to mate with
- D. anatomical incompatibility that prevents mating between snails of opposing hands within the species
- E. geographic separation of sinistral and dextral populations

#### Passage 14

X-ray examination of a recently discovered painting---judged by some authorities to be a

self-portrait by Vincent van Gogh --- revealed an underimage of a woman's face. Either van Gogh or another painter covered the first painting with the portrait now seen on the surface of the canvas. Because the face of the woman in the underimage also appears on canvases van Gogh is known to have painted, the surface painting must be an authentic self-portrait by van Gogh.

1. The conclusion is properly drawn if which of the following is assumed?
  - A. If a canvas already bears a painted image produced by an artist, a second artist who uses the canvas to produce a new painting tends to be influenced by the style of the first artist.
  - B. Many painted canvases that can be reliably attributed to van Gogh contain underimages of subjects that appear on that least one other canvas that van Gogh is known to have painted.
  - C. Any painted canvas incorrectly attributed to van Gogh would not contain an underimage of a subject appears in authentic paintings by that artist.
  - D. A painted canvas cannot be reliably attributed to an artist unless the authenticity of any underimage that painting might contain can be reliably attributed to the artist.
  - E. A painted canvas cannot be reliably attributed to a particular artist unless a reliable x-ray examination of the painting is performed.

### Passage 15

Despite hypotheses ranging from armed conflict to climate change, the abandonment of more than 600 Pueblo cliff dwellings in Mesa Verde by A.D. 1300 still puzzles archaeologists. Researchers analyzing refuse from one Pueblo community found remains of maize- a Pueblo crop – in 44 percent of samples from years when the community flourished, but in only 10 percent of samples from years near the time of depopulation, while the remains of wild plants increased significantly.

Bones found in the samples showed that the consumption of domesticated turkeys- which were fed maize – decreased from 55 to 14 percent, while there was a marked increase in wild-animal bones. These data suggest that near the end of the site's occupation, villagers experienced substantial food shortage and adopted hunting-and-gather strategies to compensate for crop failure.

1. According to the passage, which of the following is likely true regarding the consumption of wild plants in the Pueblo community investigated by researchers?
  - A. It decreased dramatically as the settlement began to decline.
  - B. It significantly affected the food supply of wild animals living nearby.
  - C. It increased as domesticated sources of food declined.
  - D. It represented a continuation of centuries-old traditions.
  - E. It fell markedly as the consumption of wild animals increased.
2. The researched described in the passage most clearly supports which of the following claims about the abandonment of Mesa Verde?
  - A. It likely resulted from factors affecting crop viability.
  - B. It was more extensive than had previously been documented

- C. It may have been hastened by the abundance of wild animals in the area.
- D. It has been misdated by previous archaeological research.
- E. it happened more rapidly in certain Pueblo communities than in others.

### Passage 16

Although it is intuitively dear that an increase in antipredator behavior lowers animal's risk of predation when predators are present, such benefits are not easily **demonstrated**. One study that did so found that well-fed guppies are more alert for predators and are consequently less likely to be killed than are their hungry counterparts, which feed with greater intensity. It is also well documented that a decrease in activity lowers an animal's risk of predation by reducing the probability of being detected or encountered by a predator. This effect was convincingly demonstrated by a study in which it was found that partially anesthetized tadpoles were less likely to be captured by dragonfly larvae than were unanesthetized tadpoles.

For the following question, consider each of the choices separately and select all that apply.

1. It can be inferred that the guppy study and the tadpole study, as they are described in the passage, differed in which of the following ways?
  - A. The animals less likely to become the victims of predators were the more active ones in the guppy study but were the less active ones in the tadpole study.
  - B. The animals less likely to become the victims of predators were those more alert to their surroundings in the guppy study but were the less alert ones in the tadpole study.
  - C. The situation created experimentally for the guppy study would be more likely to occur in the wild than would the situation created for the tadpole study.
2. In the context indicated, "demonstrated" most nearly means
  - A. explained
  - B. presented
  - C. shown
  - D. protested
  - E. justified

### Passage 17

Since the 1980s, **experts** have been claiming that the skill demands of today's jobs have outstripped the skills workers possess. Moss and Tilly counter that worker deficiencies lie less in job-specific skills than in such attributes as motivation, interpersonal skills, and appropriate work demeanor. However, Handel suggests that these perceived deficiencies are merely an age effect, arguing that workers pass through a phase of early adulthood characterized by weak attachment to their jobs. As they mature, workers grow out of casual work attitudes and adjust to the workplace norms of jobs that they are more interested in retaining. Significantly, complaints regarding younger workers have persisted for over two decades, but similar complaints regarding older workers have not grown as the earlier cohorts aged.

1. The passage suggest that Moss and Tilly are most likely to disagree with the “experts” about which of the following?
  - A. Whether the skills demanded by jobs in the labor market have changed since the 1980s.
  - B. Whether employers think that job-specific skills are as important as such attributes as motivation and appropriate work demeanor.
  - C. Whether workers in today’s labor market generally live up to the standards and expectations of employers.
  - D. Whether adequate numbers of workers in the labor market possess the particular skills demanded by various different jobs.
  - E. Whether most workers are motivated to acquire new skills that are demanded by the labor market.
2. The last sentence serves primarily to
  - A. suggest that worker deficiencies are likely to become more pronounced in the future.
  - B. introduce facts that Handel may have failed to take into account
  - C. cite evidence supporting Handel’s argument about workers
  - D. show that the worker deficiencies cited by Handel are more than an age effect
  - E. distinguish certain skills more commonly possessed by young workers from skills more commonly found among mature workers.

### Passage 18

In the early twentieth century, the idea that pianists should be musician-scholars whose playing reflected the way composers wanted their music to sound replaced the notion that pianists should be virtuosos whose performances thrilled audiences with emotional daring and showy displays of technique. One important figure to emerge in the period, though a harpsichordist rather than a pianist, was Wanda Landowska (1879-1959). She demonstrated how the keyboard works of Baroque composers such as Bach, Handel, Scarlatti, and Couperin probably sounded in their own times. It would be a mistake to consider Landowska a classicist, however. She had been born in an age of Romantic playing dominated by Liszt, Leschetizky, and their pupils. Thus she grew up with and was influenced by certain Romantic traditions of performance, whatever the stringency of her musical scholarship; Landowska knew how to hold audiences breathless, and when she gave recitals, they responded with deathlike silence and rapt attention.

Her playing was Romantic, but it was at least as close in spirit to the style of playing intended by composers of the Baroque(1600-1750) and Classical (1750-1830) eras, as have been the more exacting but less emotionally resonant interpretations of most harpsichordists since Landowska. She had a miraculous quality of touch, a seemingly autonomous left hand; no artist in her generation could clarify with such deftness the polyphonic writing of the Baroque masters. And none could make their music so spring to life.

Her achievements were the result of a lifetime of scholarship, truly remarkable physical gifts, and resilient rhythm, all combined with excellent judgment about when not to hold the printed note sacrosanct. Of course, developing such judgment demanded considerable



experience and imagination. She was a genius at underlining the dramatic and emotional content of a piece, and to do so, she took liberties, all kinds of liberties, while nevertheless preserving the integrity of a composer's score. In short, her entire musical approach was Romantic: intensely personal, full of light and shade, never pedantic.

Thanks to Landowska, Bach's music (originally composed for the harpsichord) now sounded inappropriately thick when played on the piano. One by one, pianists stopped playing Bach's music as adapted for the piano by Liszt or by Tausig. Then they gradually stopped performing any kind of Baroque music on the piano, even Scarlatti's. The piano repertoire, it began to be felt, was extensive enough without reverting to transcriptions of Baroque music originally written for the harpsichord- and piano performances of Bach and Scarlatti were, despite the obvious similarities between the harpsichord and the piano, transcriptions, no matter how faithfully the original notes were played. In accordance with this kind of purism came an emphasis on studying composers' manuscript notations, a relatively new field of musicology that is flourishing even today.

1. The passage suggests that Landowska's playing embodied a rejection of which of the following?
  - A. Emotionally resonant interpretations of musical works.
  - B. An audience's complete silence during a performance.
  - C. Performances of previously obscure Baroque works.
  - D. The idea that a performer can correctly judge when not to hold the printed note sacrosanct.
  - E. Performances emphasizing showy displays of technique that compromise the integrity of a composer's original score.
2. Which of the following can be inferred from the passage about the compositions?
  - A. They were adapted by Liszt and Tautig.
  - B. They have not been transcribed faithfully.
  - C. They were not composed during the Baroque period.
  - D. They were composed for instruments other than piano.
  - E. They fell out of favor with most musicians in the early twentieth century.
3. The passage suggests that Landowska would probably have objected most strongly to which of the following?
  - A. A performance of Bach keyboard piece played on the harpsichord.
  - B. A performance of a Handel organ piece on a Baroque pipe organ.
  - C. A modern composition written for a harpsichord and two pianos.
  - D. A piano solo in which the performer occasionally depart\* from the tempo indicated by the composer.
  - E. A performance of a piano and violin sonata in which the piano part U played on the harpsichord.
4. The author's assertion that Landowska should not be considered a classicist serves primarily to emphasize which of the following?
  - A. Landowska specialized in playing the works of composers of the Baroque era.



- B. Landowska's repertoire included orchestral music only.
- C. Landowska's musical performances were not devoid of emotion.
- D. Landowska's repertoire emphasized works of long-lasting interest and value.
- E. Landowska advocated the study of Classical style or form.

### Passage 19

Scientists formerly believed that the rocky planets – Earth, mercury, Venus, and Mars – were created by the rapid gravitational collapse of a dust cloud, a deflation giving rise to a dense orb. That view was challenged in the 1960s, when studies of Moon craters revealed that these craters were caused by the impact of objects that were in great abundance about 4.5 billion years ago but whose number appeared to have quickly decreased shortly thereafter. This **observation** rejuvenated Otto Schmidt's 1994 theory of accretion. According to this theory, cosmic dust gradually lumped into ever-larger conglomerates: particulates, gravel, small and then larger balls, planetesimal (tiny planets), and ultimately, planets. As the planetesimals became larger, their numbers decreased. Consequently, the number of collisions between planetesimals decreased.

For the following question, consider each of the choices separately and select all that apply.

1. The passage provides evidence that Schmidt would be likely to disagree with the theory presented in the first sentence over
  - A. the length of time it took for the rocky planets to form.
  - B. the most likely causes of the Moon's impact craters.
  - C. the importance cosmic dust as a seminal material in planetary formation.
2. Which of the following best describes the "observation" referred to in the passage?
  - A. The rocky planets were created by the rapid gravitational collapse of a dust cloud.
  - B. Certain features on the Moon's surface are impact craters caused by collisions with objects such as planetesimals.
  - C. The rocky planets were formed by a slow accretion of cosmic dust into increasingly larger bodies.
  - D. The number of objects colliding with the Moon appears to have been high for a while and then rapidly diminished.
  - E. There are far fewer planetesimals in existence today than there were about 4.5 billion years ago.

### Passage 20

Despite a dramatic increase in the number of people riding bicycles for recreation in Parkville, a recent report by the Parkville Department of Transportation shows that the number of accidents involving bicycles has decreased for the third consecutive year.

1. Which of the following, if true during the last three years, best reconciles the apparent

discrepancy in the facts?

- A. The Parkville Department of Recreation confiscated abandoned bicycles and sold them at auction to any interested Parkville residents.
- B. Increased automobile and bus traffic in Parkville had been the leading cause of the most recent increase in automobile accidents.
- C. Because of the local increase in the number of people bicycling for recreation, many out-of-town bicyclists ride in the Parkville area.
- D. The Parkville Police Department enforced traffic rules for bicycle riders much more vigorously and began requiring recreational riders to pass a bicycle safety course.
- E. The Parkville Department of Transportation canceled a program that required all bicycles to be inspected and registered each year.

### Passage 21

What makes a worker ant perform one particular task rather than another? From the 1970s to the mid-1980s, researchers emphasized internal factors within individual ants, such as polymorphism, the presence in the nest of workers of different shapes and sizes, each suited to a particular task. Other elements then considered to have primary influence upon an ant's career were its age-it might change tasks as it got older-and its genetics. However, subsequent ant researchers have focused on external prompts for behavior. In advocating this approach, Deborah Gordon cites experiments in which intervention in a colony's makeup perturbed worker activity. By removing workers or otherwise altering the nest conditions, researchers were able to change the tasks performed by individual workers.

For the following question, consider each of the choices separately and select all that apply.

1. According to the passage, which of the following factors were considered from the 1970s to the mid-1980s to influence the division of labor among a colony's worker ants?
  - A. Ants' inherited traits
  - B. The age of the ants
  - C. The ants' experiences outside the nest

For the following question, consider each of the choices separately and select all that apply.

2. It can be inferred from the passage that Gordon and earlier researchers would agree with which of the following statements about worker ants?
  - A. Disruption of the nest can affect workers' roles.
  - B. Genetics predominates over other factors in determining a worker ant's role.
  - C. An individual worker's tasks can change during its lifetime.

For the following question, consider each of the choices separately and select all that apply.

3. The last sentence has which of the following functions in the passage?
  - A. It explains how the experiments performed by Gordon differed from those performed by

earlier researchers.

B. It justifies the methodology of the experiments cited by Gordon.

C. It gives details showing how the experiments cited by Gordon support her position.

## Passage 22

*This passage is adapted from material published in 2001.*

In 1998 scientists using the neutrino detector in Kamioka, Japan, were able to observe several thousand neutrinos—elusive, tiny subatomic particles moving at nearly the speed of light and passing through almost everything in their path. The Kamioka findings have potentially far-reaching ramifications. They strongly suggest that the neutrino has mass, albeit an infinitesimal amount. Even a tiny mass means that neutrinos would outweigh all the universe's visible matter, because of their vast numbers. The findings also suggest that a given neutrino does not have one stable mass or one stable identity; instead it oscillates from one identity or "flavor" (physicists' term describing how neutrinos interact with other particles) to another. This oscillation may explain why, although the Sun is a large source of neutrinos, detectors capture far fewer solar neutrinos than the best theory of solar physics predicts: the neutrinos may be changing to flavors undetectable by detectors. Finally, while the standard particle-physics model—which describes all matter in terms of twelve fundamental particles and four fundamental forces—does not allow for neutrinos with mass, there are theories that do. Further experiments to confirm that neutrinos have mass could help physicists determine which, if any, of these theories is correct.

1. The primary purpose of the passage is to
  - A. evaluate the merits of a particular theory in light of new evidence
  - B. discuss scientists' inability to account for certain unexpected discoveries
  - C. point out certain shortcomings in a long-standing theory
  - D. compare several alternative explanations for a particular phenomenon
  - E. consider some implications of certain scientific findings
2. According to the passage, one significant implication of the discovery that neutrinos have mass is that such a discovery would
  - A. cast doubt on the solar origins of many of the neutrinos that reach Earth
  - B. help to establish the validity of the standard particle-physics model
  - C. indicate that most of the visible matter of the universe is composed of neutrinos
  - D. entail that the total weight of all the visible matter in the universe is less than that of all the neutrinos in the universe
  - E. mean that the speed with which neutrinos normally move can be slowed by certain types of matter

## Passage 23

Mayor: Four years ago, when we reorganized the city police department in order to save money, critics claimed that the reorganization would make the police less responsive to citizens

and would thus lead to more crime. The police have compiled theft statistics from the years following the reorganization that show that the critics were wrong. There was an overall decrease in reports of thefts of all kinds, including small thefts.

1. Which of the following, if true, most seriously challenges the mayor's argument?
  - A. When city police are perceived as unresponsive, victims of theft are less likely to report thefts to the police.
  - B. The mayor's critics generally agree that police statistics concerning crime reports provide the most reliable available data on crime rates.
  - C. In other cities where police departments have been similarly reorganized, the numbers of reported thefts have generally risen following reorganization.
  - D. The mayor's reorganization of the police department failed to save as much money as it was intended to save.
  - E. During the four years immediately preceding the reorganization, reports of all types of theft had been rising steadily in comparison to reports of other crimes.

#### Passage 24

During the 1920s, most advocates of scientific management, Frederick Taylor's method for maximizing workers' productivity by rigorously routinizing their jobs, opposed the five-day workweek. Although scientific managers conceded that reducing hours might provide an incentive to workers, in practice they more often used pay differentials to encourage higher productivity. Those **reformers** who wished to embrace both scientific management and reduced hours had to make a largely negative case, portraying the latter as an antidote to the rigors of the former.

In contrast to the scientific managers, Henry Ford claimed that shorter hours led to greater productivity and profits. However, few employers matched either Ford's vision or his specific interest in mass marketing a product—**automobiles**—that required leisure for its use, and few unions succeeded in securing shorter hours through bargaining. At its 1928 convention, the American Federation of Labor (AFL) **boasted** of approximately 165,000 members working five-day, 40-hour weeks. But although this represented an increase of about 75,000 since 1926, about 70 percent of the total came from five extremely well-organized building trades' unions.

1. The passage is primarily concerned with discussing which of the following?
  - A. The relative merits of two points of view regarding a controversy
  - B. The potential benefits to workers in the 1920s of a change in employers' policies
  - C. The reasons for a labor-management disagreement during the 1920s
  - D. The status of a contested labor issue during the 1920s
  - E. The role of labor unions in bringing about a reform
2. It can be inferred that the author of the passage mentions "automobiles" primarily to suggest that
  - A. Ford's business produced greater profits than did businesses requiring a workweek longer than five days

- B. Ford, unlike most other employers, encouraged his employees to use the products they produced
- C. Ford may have advocated shorter hours because of the particular nature of his business
- D. unions were more likely to negotiate for shorter hours in some businesses than in others
- E. automobile workers' unions were more effective than other unions in securing a five-day workweek

3. It can be inferred that the author of the passage would probably agree with which of the following claims about the “boast”?

- A. It is based on a mistaken estimation of the number of AFL workers who were allowed to work a five-day, 40-hour week in 1928.
- B. It could create a mistaken impression regarding the number of unions obtaining a five-day, 40-hour week during the 1920s.
- C. It exaggerates the extent of the increase between 1926 and 1928 in AFL members working a five-day, 40-hour week.
- D. It overestimates the bargaining prowess of the AFL building trades' unions during the 1920s.
- E. It is based on an overestimation of the number of union members in the AFL in 1928.

4. According to the passage, the “reformers” claimed that

- A. neither scientific management nor reduced hours would result in an improvement in the working conditions of most workers
- B. the impact that the routinization of work had on workers could be mitigated by a reduction in the length of their workweek
- C. there was an inherent tension between the principles of scientific management and a commitment to reduced workweeks
- D. scientific managers were more likely than other managers to use pay differentials to encourage higher productivity
- E. reducing the length of the workweek would increase productivity more effectively than would increases in pay

#### Passage 25

In November 1753, the British author Sarah Fielding accepted half the payment for her novel *The Cry* and asked that the other half, when due, go to her “or to whomsoever I shall appoint,” perhaps indicating that the remaining share was intended for someone else. Indeed, many think that the novel was a collaborative venture between Fielding and Jane Collier. This particular collaboration was likely enough, as the two were close friends with common interests. They wrote jointly authored letters, were both published authors with a lively interest in each other's work, and were enthusiastic supporters of didacticism and innovation in fiction—central concerns of *The Cry*. However, contemporaries ascribed the work solely to Fielding, and there is nothing in the novel that is incompatible with Fielding's other writings.

For the following question, consider each of the choices separately and select all that apply.



1. The passage presents which of the following as evidence in favor of Fielding and Collier's having collaborated in writing *The Cry*?
  - A. Their friendship
  - B. Their joint authorship of correspondence
  - C. Their approach to fiction
2. It can be inferred that author of the passage would agree with which of the following claims about *The Cry*?
  - A. It develops themes commonly found in published works.
  - B. It reflects an interest in the purposes to which fiction may be put.
  - C. It contains elements that are incompatible with any of Collier's solo writings.
  - D. It shows that the extent of Collier and Fielding's shared interests was not as wide as is generally thought.
  - E. Parts of it were written jointly by Fielding and Collier.

### Passage 26

The binary planet hypothesis – that Earth and the Moon formed simultaneously by the accretion of smaller objects – does not explain why the Moon's iron core is so small relative to the Moon's total volume, compared with Earth's core relative to Earth's total volume. According to the giant-impact hypothesis, the Moon was created during a collision between Earth and a large object about the size of Mars. Computer simulations of this impact show that both of the objects would melt in the impact and the dense core of the impactor would fall as molten rock into the liquefied iron core of Earth. The ejected matter – mantle rock that had surrounded the cores of both objects – would be almost devoid of iron. This matter would become the Moon.

1. According to the passage, the binary planet hypothesis holds that
  - A. Earth and the Moon were formed at the same time.
  - B. smaller objects joined together to form the Earth and the Moon
  - C. the Moon's core is the same absolute size as Earth's core
2. The giant-impact hypothesis as described in the passage answers all of the following questions EXCEPT:
  - A. What happened to the rock that surrounded the impactor's core after the impactor hit Earth?
  - B. What happened to the impactor's core after the impactor hit Earth?
  - C. Where did the impactor that collided with Earth originate?
  - D. Why is the Moon's iron core small relative to that of Earth?
  - E. What was the size of the impactor relative to the Mars?
3. Which of the following best describes the organization of the passage?
  - A. The development of one theory into another is outlined.
  - B. Two explanations are provided, both of which are revealed as inadequate.
  - C. A theory is presented, and then evidence that undermines that theory is discussed.



- D. Similarities and differences between two theories are described.
- E. A flawed hypothesis is introduced, and then an alternative hypothesis is presented.

### Passage 27

Most recent work on the history of leisure in Europe has been based on the central hypothesis of a fundamental discontinuity between preindustrial and industrial societies. According to this view, the modern idea of leisure did not exist In medieval and early modern Europe : the modern distinction between the categories of work and leisure was a product of Industrial capitalism. Preindustrial societies had festivals (together with Informal and Irregular breaks from work), while industrial societies have leisure in the form of weekends and vacations. The emergence of leisure is therefore part of the process of modernization. If this theory is correct, there is what Michel Foucault called a conceptual rupture between the two periods, and so the very idea of a history of leisure before the Industrial Revolution is an anachronism.

To reject the idea that leisure has had a continuous history from the Middle Ages to the present is not to deny that late medieval and early modern Europeans engaged in many pursuits that are now commonly considered leisure or sporting activates— jousting, hunting, tennis, card playing, travel, and so on—or that Europe in this period was dominated by a privileged class that engaged in these pursuits. What is involved in the discontinuity hypothesis is the recognition that the people of the Middle Ages and early modern Europe did not regard as belonging to a common category activities (hunting and gambling, for example) that are usually classified together today under the heading of leisure. Consider fencing: today it may be considered a “sport”, but for the gentleman of the Renaissance it was an art or science. Conversely, activities that today may be considered serious, notably warfare, were often described a pastimes.

Serious pitfalls therefore confront historians of leisure who assume continuity and who work with the modern concepts of leisure and sport, projecting them back onto the past without asking about the meanings contemporaries gave to their activates. However, the discontinuity hypothesis can pose problems of its own. Historians holding this view attempt to avoid anachronism by means of a **simple dichotomy**, cutting European history into two eras, preindustrial and industrial, setting up the binary opposition between a "festival culture" and a "leisure culture". The dichotomy remains of use insofar as it reminds us that the rite of industrial capitalism was not purely a phenomenon of economic history, but had social and cultural preconditions and consequences. The dichotomy; however, leads to distortions when it reduces great variety of medieval and early modern European ideas, assumptions, and practices to the simple formula implied by the phrase culture.

1. The primary purpose of the passage is to
  - A. refute the idea that the history of leisure is discontinuous.
  - B. show why one of two approaches is more useful in studying the history of leisure
  - C. suggest the need for a new, more inclusive concept to replace the concept of leisure
  - D. trace the development of a theory about the history of leisure
  - E. point out the basis for, and the limits of, an approach to the history of leisure

2. The author of the passage asserts that the “dichotomy” can lead to which of the following?
- A. Reliance on only one of several equally valid theoretical approaches
  - B. The imposition of modern conceptions and meanings on past societies
  - C. Failure to take into account the complexity of certain features of European culture
  - D. Failure to utilize new conceptual categories in the study of the history of leisure
  - E. Failure to take account of the distinction between preindustrial and industrial societies.
3. According to the passage, the “Simple dichotomy” is useful primarily because it serves as
- A. a way of calling historians’ attention to certain facts about the industrial Revolution
  - B. an antidote to the oversimplification encouraged by such terms as “festival culture”
  - C. a device for distinguishing between the work and the leisure activities of preindustrial Europeans
  - D. a way of understanding the privileged class of medieval Europe by viewing its activities in modern terms
  - E. a tool for separating social history, including the history of leisure, from economic history
4. Which of the following best describes the organization of the passage as a whole?
- A. Two hypotheses are discussed, and evidence in support of one is presented.
  - B. A hypothesis is presented and discussed, and a limitation to the hypothesis is identified
  - C. A hypothesis is proposed, its supposed advantages are shown to be real, and its supposed disadvantages are shown to be illusory.
  - D. A problem is identified, two hypotheses are advanced to resolve it, and both are rejected.
  - E. A problem is identified, two resolutions are proposed, and a solution combining elements of both is recommended.

### Passage 28

James W. Coleman’s book on John Edgar Wideman’s literary career addresses the needs of a general, if well-read, public rather than the esoteric vanities of scholarly specialists, whom he neither ignores nor flatters. To assume the former audience was familiar with every work Wideman ever penned would have been pretentious. Instead, Coleman furnishes more than ample descriptive criticism and background information, avoiding the cryptic allusiveness that is favored by some academic critics but that discourages the undergraduate audience he likely envisioned. Unfortunately, this accent on bringing serious Wideman criticism to a broader audience often frustrates the reader who wishes that announced themes, techniques, and stylistic devices would not whisk by as quickly as world capitals on a **seven-day package tour of the globe**.

1. The reference to “a seven-day package tour of the globe” is most likely meant to suggest a treatment that is
- A. inclusive
  - B. cursory
  - C. focused

- D. broad based
- E. substantial

### Passage 29

The painter Peter Brandon never dated his works, and their chronology is only now beginning to take shape in the critical literature. A recent dating of a Brandon self-portrait to 1930 is surely wrong. Brandon was 63 years old in 1930, yet the painting shows a young, dark-haired man- obviously Brandon, but clearly not a man of 63.

1. Which of the following, if justifiably assumed, allows the conclusion to be properly drawn?
  - A. There is no securely dated self-portrait of Brandon that he painted when he was significantly younger than 63
  - B. In refraining from dating his works, Brandon intended to steer critical discussion of them away from considerations of chronology
  - C. Until recently, there was very little critical literature on the works of Brandon
  - D. Brandon at age 63 would not have portrayed himself in a painting as he had looked when he was a young man.
  - E. Brandon painted several self-portraits that showed him as a man past the age of 60.

### Passage 30

Experts have differed about where the genus *Varanus* (monitor lizards) originated. Because most existing species live in Australia, early researchers concluded that *Varanus* originated in Australia and subsequently island hopped westward along the Indo-Australian archipelago. Herpetologist Robert Mertens later argued that *Varanus* probably originated in the archipelago. Chromosomal analysis has since supported Mertens' contention, and in addition, **geologic evidence** points to a collision between the archipelago and the Australian landmass after *Varanus* evolved – a fact that could account for the genus' present distribution.

A related puzzle for scientists is the present distribution of *Varanus*' largest surviving species, the Komodo dragon. These carnivores live only on four small islands in the archipelago where, scientists note, the prey base is too small to support mammalian carnivores. But the Komodo dragon has recently been shown to manage body temperature much more efficiently than do mammalian carnivores, enabling it to survive on about a tenth of the food energy required by a mammalian carnivore of comparable size.

1. It can be inferred from the passage that the geographical distribution of the Komodo dragon is
  - A. currently less restricted than it was at the time researchers first began investigating the origins of the genus *varanus*
  - B. currently more restricted than it was at the time researchers first began investigating the origins of the genus *Varanus*
  - C. less restricted than is the distribution of the genus *Varanus* as a whole
  - D. more restricted than is the distribution of the genus *Varanus* as a whole

E. viewed as evidence in favor of the hypothesis that the genus *Varanus* originated in the Indo-Australian archipelago

2. Which of the following elements in the debate over the origin of *Varanus* is NOT provided in the passage?

A. The evidence that led Mertens to argue that *Varanus* originated in the Indo-Australian archipelago

B. The evidence that led early researchers to argue that *Varanus* originated in Australia

C. A possible explanation of how *Varanus* might have spread to the Indo-Australian archipelago if it had originated in Australia.

D. A possible explanation of how *Varanus* might have spread to Australia if it had originated in the Indo-Australian archipelago.

E. An indication of the general present-day distribution of *Varanus* species between Australia and the Indo-Australian archipelago.

3. It can be inferred that which of the following is true of the “geologic evidence”?

A. It was first noted by Mertens as evidence in favor of his theory about the origins of *Varanus*.

B. It cannot rule out either one of the theories about the origins of *Varanus* discussed in the passage.

C. It accounts for the present distribution of the Komodo dragon.

D. It has led to renewed interest in the debate over the origins of *Varanus*

E. It confirms the conclusions reached by early researchers concerning the origins of *Varanus*

### Passage 31

Geographers and historians have traditionally held the view that Antarctica was first sighted around 1820, but some sixteenth-century European maps show a body that resembles the polar landmass, even though explorers of the period never saw it. Some scholars, therefore, argue that the continent must have been discovered and mapped by the ancients, whose maps are known to have served as models for the European cartographers.

1. Which of the following, if true, is most damaging to the inference drawn by the scholars?

A. The question of who first sighted Antarctica in modern times is still much debated, and no one has been able to present conclusive evidence.

B. Between 3,000 and 9,000 years ago, the world was warmer than it is now, and the polar landmass was presumably smaller.

C. There are only a few sixteenth-century global maps that show a continental landmass as the South Pole.

D. Most attributions of surprising accomplishments to ancient civilizations or even extraterrestrials are eventually discredited or rejected as preposterous.

E. Ancient philosophers believed that there had to be a large landmass at the South Pole to balance the northern continents and make the world symmetrical.

## Part 2

### Passage 1

A divide between aesthetic and technical considerations has played a crucial role in mapmaking and cartographic scholarship. Since nineteenth century cartographers, for instance, understood themselves as technicians who did not care about visual effects, while others saw themselves as landscape painters. That dichotomy structured the discipline of the history of cartography. Until the 1980s, in what Blakemore and Harley called “the Old is Beautiful **Paradigm**,” scholars largely focused on maps made before 1800, marveling at their beauty and sometimes regretting the decline of the pre-technical age. Early mapmaking was considered art while modern cartography was located within the realm of engineering utility. Alpers, however, has argued that this boundary would have puzzled mapmakers in the seventeenth century, because they considered themselves to be visual engineers.

1. According to the passage, Alpers would say that the assumptions underlying the “paradigm” were
  - A. inconsistent with the way some mapmakers prior to 1800 understand their own work
  - B. dependent on a seventeenth-century conception of mapmaking visual engineering
  - C. unconcerned with the difference between the aesthetic and technical questions of mapmaking
  - D. insensitive to divisions among cartographers working in the period after 1800
  - E. supported by the demonstrable technical superiority of mapmaking made after 1800
2. It can be inferred from the passage that, beginning in the 1980s, historians of cartography
  - A. placed greater emphasis on the beauty of maps made after 1800
  - B. expanded their range of study to include more material created after 1800
  - C. grew more sensitive to the way mapmakers prior to 1800 conceived of their work
  - D. came to see the visual details of maps as aesthetic objects rather than practical cartographic aids
  - E. reduced the attention they paid to the technical aspects of mapmaking

### Passage 2

Most mammals reach sexual maturity when their growth rates are in decline, whereas humans experience a growth spurt during adolescence. Whether apes experience an adolescent growth spurt is still undecided. In the 1950s, data on captive chimpanzees collected by James Gavan appeared devoid of evidence of an adolescent growth spurt in these apes. In a recent reanalysis of Gavan’s data, however, zoologist Elizabeth Watts has found that as chimpanzees reach sexual maturity, the growth rate of their limbs accelerates. Most biologists, however, are skeptical that this is a humanlike adolescent growth spurt. While the human adolescent growth spurt is physically obvious and affects virtually the entire body, the chimpanzee’s increased growth rate is detectable only through sophisticated mathematical analysis. Moreover, according to scientist Holly Smith, the growth rate increase in chimpanzees begins when 86%



of full skeletal growth has been attained, whereas human adolescence generally commences when 77 percent of full skeletal growth has occurred.

1. Which of the following best describes the main idea of the passage?
  - A. Researchers have long disagreed about whether data collected in the 1950s indicate that chimpanzees and other apes experience an adolescent growth spurt.
  - B. Research data collected on chimpanzees living in captivity are inconclusive with respect to chimpanzees living in the wild.
  - C. The notion that apes do not experience an adolescent growth spurt has been confirmed by research conducted since.
  - D. Although the idea that apes experience an adolescent growth has received some support, most biologists remain unconvinced.
  - E. Although researchers agree that chimpanzees do not experience an adolescent growth spurt, they are divided in their opinions of whether this is true of other apes.
2. The passage mentions which of the following as one of the reasons why most biologists remain skeptical that chimpanzees experience a humanlike adolescent growth spurt?
  - A. Chimpanzees do not experience a demonstrable increase in growth rate until they are fully sexually mature.
  - B. The increase in growth rate that chimpanzees undergo at sexual maturity is less apparent than that of humans.
  - C. The increase in growth rate once regarded as a humanlike adolescent growth spurt in chimpanzees is too sporadic to be regarded as significant.
  - D. Not all chimpanzees undergo a calculable growth spurt.
  - E. Watt's approach to analyzing data is considered to be highly unorthodox.
3. The passage suggests which of the following about the adolescent growth spurt that takes place in humans?
  - A. Its primary effects are found in parts of the body other than the limbs.
  - B. It is generally completed by the time 77 percent of full skeletal growth is attained.
  - C. It is normally detectable without the assistance of sophisticated mathematical analysis.
  - D. The rate of growth is much faster at the beginning of puberty than at any other time.
  - E. The estimated growth rate varies depending on the methods of measurement that are used.

### Passage 3

**Many cultural anthropologists** have come to reject the scientific framework of empiricism that dominated the field until the 1970s and now regard all scientific knowledge as socially constructed. They argue that information about cultures during the empiricist era typically came from anthropologists who brought with them a prepackaged set of conscious and unconscious biases. Cultural anthropology, according to the post-1970s critique, is unavoidably subjective, and the anthropologist should be explicit in acknowledging that fact. Anthropology should stop striving to build a better database about cultural behavior and should turn to developing a more humanistic interpretation of cultures. The new framework holds that it may be more



enlightening to investigate the biases of earlier texts than to continue with empirical methodologies.

1. The author implies which of the following about most cultural anthropologists working prior to the 1970s?
  - A. They argued that scientific knowledge was socially constructed.
  - B. They were explicit in acknowledging the biases inherent in scientific investigation.
  - C. They regarded scientific knowledge as consisting of empirical truths.
  - D. They shared the same conscious and unconscious biases.
  - E. They acknowledged the need for a new scientific framework.
2. According to the passage, “many cultural anthropologists” today would agree that anthropologists should
  - A. build a better, less subjective database about cultural behavior
  - B. strive to improve the empirical methodologies used until the 1970s
  - C. reject the notion that scientific knowledge is socially constructed
  - D. turn to examining older anthropological texts for unacknowledged biases
  - E. integrate humanistic interpretations with empirical methodologies

#### Passage 4

Writing about nineteenth-century women’s travel writing, Lila Harper notes that the four women she discussed used their own names, in contrast with the nineteenth-century female novelists who either published anonymously or used male pseudonyms. The novelists doubtless realized that they were breaking boundaries, whereas three of the four daring, solitary travelers espoused traditional values, eschewing radicalism and women’s movements. Whereas the female novelists criticized their society, the female travelers seemed content to leave society as it was while accomplishing their own liberation. In other words, they lived a **contradiction**. For the subjects of Harper’s study, solitude in both the private and public spheres prevailed—a solitude that conferred authority, hitherto a male prerogative, but that also precluded any collective action or female solidarity.

1. Which of the following best characterizes the “contradiction” that the author refers to?
  - A. The subjects of Harper’s study enjoyed solitude, and yet as travelers they were often among people.
  - B. Nineteenth-century travel writers used their own names, but nineteenth-century novelists used pseudonyms.
  - C. Women’s movements in the nineteenth-century were not very radical in comparison with those of the twentieth-century.
  - D. Nineteenth-century female novelists thought they were breaking boundaries, but it was the nineteenth-century women who traveled alone who were really doing so.
  - E. While traveling alone in the nineteenth-century was considered a radical act for a woman, the nineteenth-century solitary female travelers generally held conventional views.

For the following question, consider each of the choices separately and select all that apply.

2. According to the passage, solitude had which of the following effects for the nineteenth century female travelers?

- A. It conferred an authority typically enjoyed only by men.
- B. It prevented formation of alliances with other women.
- C. It relieved peer pressure to conform to traditional values.

### Passage 5

During the Pleistocene epoch, several species of elephants isolated on islands underwent rapid dwarfing. This phenomenon was not necessarily confined to the Pleistocene, but may have occurred much earlier in the Southeastern Asian islands, although evidence is fragmentary. Several explanations are possible for this dwarfing. For example, islands often have not been colonized by large predators or are too small to hold viable predator populations. Once free from predation pressure, large body size is of little advantage to herbivores. Additionally, island habitats have limited food resources, a smaller body size and a need for fewer resources would thus be favored. Interestingly, the island rule is reversed for small mammals such as rodents, for which gigantism is favored under insular conditions.

1. The primary purpose of the passage is to
  - A. question the plausibility of one explanation sometimes offered for the dwarfing of certain species living on islands
  - B. argue that dwarfing of certain species living on islands occurred prior to the Pleistocene
  - C. cite evidence suggesting that dwarfing may have adverse consequences for some species living on islands
  - D. present some possible explanations for the dwarfing of certain species living on islands
  - E. contrast the effects of insular conditions on species with large body size and species with small body
2. According to the passage, which of the following statements about body size in mammals is true?
  - A. A large body is unfavorable to mammalian species' survival under most conditions.
  - B. A large body tends to benefit small mammals living on islands.
  - C. For most herbivorous mammals, a large body size is easier to sustain in the absence of large predators.
  - D. Under most conditions, a small body is less beneficial to herbivorous mammals than to nonherbivorous mammals.
  - E. Among nonherbivorous mammals, a small body is more beneficial on an island than on a mainland.

### Passage 6

In the early twentieth century, small magazines and the innovative graphics used on them

created the face of the avant-garde. It was a look that signaled progressive ideas and unconventionality because it dispensed with the cardinal rule of graphic design: to take an idea and make it visually clear, concise, and instantly understood. Instead, graphics produced by avant-garde artists exclusively for the avant-garde (as opposed to their advertising work) were usually difficult to decipher, ambiguous, or nonsensical. This overturning of convention, this assailing of standard graphic and typographic formats, was part of a search for intellectual freedom. The impulse toward liberation enabled avant-gardists to see with fresh eyes untried possibilities for arranging and relating words and images on paper.

1. According to the passage, the primary purpose of conventional graphic design is to
  - A. render unpopular ideas palatable to a wider audience
  - B. capture readers' attention with bold fonts
  - C. communicate nonsensical notions to a wide public
  - D. communicate ideas as efficiently and unambiguously as possible
  - E. introduce previously unknown ideas to the general public

For the following question, consider each of the choices separately and select all that apply.

2. According to the passage, avant-garde artists of the early twentieth-century created ambiguous or nonsensical graphics as part of an attempt to
  - A. expand the potential for expression through visual art
  - B. compete with advertisements for reader's attention
  - C. encourage the expansion of small magazines

### Passage 7

According to Hill and Spicer, the term “nation-state” is a misnomer, since the ideal model of a monolingual, culturally homogeneous state has never existed, not even among Europeans, who invented the nation-state concept and introduced it to the rest of the world. Modern European states, they argue, emerged after the Renaissance through the rise of nations (i.e., specific ethnic groups) to positions of political and economic dominance over a number of other ethnic groups within the bounded political territories. The term “nation-state”, Hill and Spicer argue, obscures the internal cultural and linguistic diversity of states that could more accurately be called “conquest states.” The resurgence of multiple ethnic groups within a single state, Hill says, is not “potentially threatening to the sovereign jurisdiction of the state,” as Urban and Sherzer suggest; rather, the assertion of cultural differences threatens to reveal ethnocentric beliefs and practices upon which conquest states were historically founded and thus to open up the possibility for a “nations-state” in which conquered ethnic groups enjoy equal rights with the conquering ethnic group but do not face the threat of persecution or cultural assimilation into the dominant ethnic group.

1. The primary purpose of the passage is to
  - A. discuss issues relating to a form of political organization by raising doubts about the terminology used to refer to it

- B. trace changes in a form of political organization by examining the evolution of the terminology used to refer to
- C. justify the continued use of an established term for an evolving form of political organization
- D. question the accuracy of a new term for a form of political organization
- E. compare two terms for a form of political organization
2. The author of the passage quotes Urban and Sherzer most probably in order to
- A. introduce a discussion of the legal ramifications of expanding the nation-state concept
- B. summarize a claim about one possible effect of asserting cultural differences within a state
- C. shift the focus of discussion from internal threats that states face to external threats that they face
- D. point out similarities between the threats to states seen by Urban and Sherzer and those seen by Hill
- E. describe one way an ethnocentric practice has affected attempts to assert cultural differences within a state
3. According to the passage, Hill and Spicer define nations as which of the following?
- A. coalitions of distinct ethnic groups with similar concerns
- B. Distinct ethnic groups
- C. Culturally homogeneous states
- D. Linguistically diverse states
- E. Territorially bounded states

### Passage 8

From 1910 to 1913, women suffragists in the United States organized annual parades—activity traditionally conducted by men to proclaim solidarity in some cause—not only as a public expression of suffragist solidarity but also a conscious transgression of the **rules of social order**: women’s very presence in the streets challenged traditional notions of femininity and restrictions on women’s conduct. While recognizing the parade’s rhetorical force as a vehicle for social change, scholars have recently begun to examine its drawbacks as a form of protest. Lumsden characterizes the American suffrage parade as a “double-edged sword”, arguing that women’s efforts to proclaim their solidarity left them open to patronizing commentary from press and public and to organized opposition from antisuffragists.

1. It can be inferred from the passage that men’s and women’s parades were similar in that both
- A. were employed as rhetorical vehicles for social change
- B. were regarded as violating contemporary standards of public decorum
- C. made participants vulnerable to organized opposition
- D. were largely ineffective as forms of protest
- E. were intended by their participants as public declarations of solidarity
2. The passage suggests which of the following about proponents of the “rules of social order?”
- A. They frowned upon public displays such as parades.

- B. They had ulterior motives for objecting to women's participation in suffrage parades.
- C. They formed the core of the organized opposition to women suffrage.
- D. They believed that it was unfeminine for women to march in suffrage parades.
- E. They supported women's rights to vote but disapprove some of the methods that suffragists employed to gain that right.

### Passage 9

Unlike most Jane Austen scholarship before 1980, much recent scholarship analyzes the novels of Austen, who lived from 1775 to 1817, in the context of Austen's tumultuous times, which saw the French and American revolutions and the Napoleonic Wars. Yet Frantz notes another revolution, rarely mentioned in Austen scholarship: the Great Masculine Renunciation that altered conventions in men's dress and behavior. During the later eighteenth century, wealthy gentlemen exchanged the velvets and satins long in fashion for somber woolen suits. Frantz contends that this change reflected deeper cultural changes. The value once placed on men's expressiveness, reflected in Mackenzie's novel *The Man of Feeling* (1771), gave way to a preference for emotional restraint. In Austen's novels, the heroine often struggles to glimpse the true nature of hero beneath his reserved exterior.

1. The author of the passage mentions *The Man of Feeling* (1771) in order to
  - A. contrast Mackenzie's reasons for writing novels with those of Austen
  - B. introduce evidence regarding the influence of particular writers on Austen
  - C. corroborate a claim that a convention of masculine behavior changed during Austen's lifetime
  - D. suggest that Austen's novels were more reflective of their historical context than Mackenzie's had been
  - E. challenge a particular misconception about the modes of behavior common among gentlemen in the later eighteenth century
2. The passage suggests which of the following about scholarship on Jane Austen?
  - A. Much recent scholarship has begun to place greater emphasis on gender conventions governing men's behavior during Austen's lifetime.
  - B. Some scholarship has debated whether Austen's novels depict emotional restraint as an admirable quality.
  - C. Certain scholars argue that Austen's novels do not accurately reflect cultural changes during Austen's lifetime that changed the way gentlemen dressed and behaved.
  - D. After 1980, scholarship on Austen shifted toward a greater emphasis on the historical context in which she wrote.
  - E. With few exceptions, recent scholarship depicts Austen as a writer who had little interest in the tumultuous events of her time.

### Passage 10

Whereas Carlos Bulosan aimed through fiction and personal testimony to advance both



Filipino civil rights in the United States and the social transformation of the Philippines, Yen Le Espiritu has set herself the task of recovering life histories of Filipino Americans. Her work brings Filipino Americans of the generation following the 1934-1965 immigration hiatus **graphically** to life. A special strength is the representation of Filipino American women, who were scarce among immigrants before the 1934 American curb on Filipino immigration but composed more than half of the immigrants to America since liberalization in 1965. Espiritu's subjects document their changing sense of Filipino identity in the United States, much as Bulosan did as a member of the first substantial wave of immigrants.

1. According to the passage, both Bulosan and Espiritu do which of the following in their work?
  - A. Consider generational differences in Filipino immigrants' responses to life in the United States
  - B. Attempt to make allowance for the demographic variations among Filipino immigrants to the United States
  - C. Employ fiction in addition to documenting actual life histories of Filipino immigrants to the United States
  - D. Represent how life in the United States has affected immigrants' sense of Filipino identity
  - E. Examine the effects on Filipinos in the United States of the 1934 American curb on Filipino immigration
2. In the context in which it appears, "graphically" most nearly means
  - A. in writing
  - B. by means of drawing
  - C. impressionistically
  - D. diagrammatically
  - E. vividly

### Passage 11

While historian Linda Nicholson sees women's participation in voluntary associations as activities consistent with the increasing relegation of women's lives to a separate, "private" sphere in nineteenth-century Europe, historian Katherine Lynch argues that these kinds of activities enabled women to join with one another and to develop a kind of shadow citizenship within civil society, if not the formal state. **These kinds of experiences** were no substitute for actual political entitlements, Lynch suggests, but they deserve more attention for their importance in helping individuals forge enduring bonds of community and identity beyond domestic life. Only by limiting one's notion of public life to formal political participation, she says, can one conclude that most women in Western society have ever been literally consigned to a separate or "private" sphere.

1. The phrase "These kinds of experiences" in the passage refers to experiences that in Lynch's view are
  - A. an early stage in women's political participation
  - B. insufficiently appreciated for their role in women's public life



- C. properly assigned to the “private” sphere
  - D. a means of altering the political structure
  - E. historically atypical for women in Western society
2. The passage implies that Lynch would agree that formal political participation
- A. was increasingly important as the nineteenth century progressed
  - B. was an underreported phenomenon among women in nineteenth century Europe within civil society
  - C. is crucial to helping individuals form community ties
  - D. is a significant component of public life
  - E. is indicative of a kind of shadow citizenship.

### Passage 12

As it was published in 1935, *Mules and Men*, Zora Neale Hurston’s landmark collection of folktales, may not have been the book that its author first had in mind. In this anthropological study, Hurston describes in detail the people who tell the stories, often even inserting herself into the storytelling scene. Evidently, however, Hurston had prepared another version, a manuscript that was recently discovered and published after having been forgotten since 1929. This version differs from *Mules and Men* in that it simply records stories, with no descriptive or interpretive information.

While we cannot know for certain why Hurston’s original manuscript went unpublished during her lifetime, it may have been because publishers wanted something more than a transcription of tales. Contemporary novelist and critic John Edgar Wideman has described Black literature as the history of a writing that sought to “escape its frame,” in other words, as the effort of Black writers to **present** the stories of Black people without having to have a mediating voice to explain the stories to a non-Black audience. In this, Hurston may have been ahead of her time.

1. Select the sentence that suggests a possible reason why Hurston wrote the version of *Mules and Men* that was published in 1935.
2. The passage suggests that Hurston may have done which of the following in preparing her original version?
- A. Discussed her mode of presentation with her publisher before writing the first draft, in order to reduce the possibility of misunderstanding.
  - B. Shortened her presentation of the stories to the bare minimum in order to be able to present more folklore material.
  - C. Put it aside for several decades in order to maximize its potential audience when it was published
  - D. Reluctantly agreed to reshape it in order to take out various elements with which her publisher had been dissatisfied.
  - E. Chose not to include editorial commentary, in order to present the stories on their own terms.

3. Replacement of the word “present” with which of the following results in the least change in meaning for the passage?

- A. hand over
- B. donate
- C. offer
- D. propose
- E. submit

### Passage 13

1800 Thomas Dilworth’s *New Guide to the English Dialogue* was being widely used to teach reading in the United States. Dilworth’s primer, unlike earlier ones, stressed the importance of children’s understanding what they read. While it is in fact unlikely that children would have recognized all the vocabulary Dilworth used, that was at least his stated goal. Dilworth recognized that primers should enable children to decode words from print with the form of language they already knew: speech. In contrast, many **earlier authors** assumed that, just as introductory Latin texts taught children an unknown language, introductory English texts should teach English as if it, too, were an unknown language—such their esoteric choice of vocabulary, it in effect became unknown.

1. According to the passage, the “earlier authors” adopted a model for English instruction that
  - A. mirrored the practice used in Latin instruction
  - B. was originally formulated by Dilworth
  - C. was less esoteric than that adopted by Dilworth
  - D. stressed familiarity with the peculiarities of English spelling
  - E. emphasized the importance of fluent and articulate speech
2. The author of the passage would probably agree with which of the following criticisms of English primers predating Dilworth’s?
  - A. Their Latinate grammatical terms poorly described the structures of English.
  - B. They failed to make effective use of the knowledge of language a child already possessed.
  - C. Their texts typically focused on subject matter that held little intrinsic interest for their readers.
  - D. They neglected to teach the language in a sufficiently systematic way.
  - E. They required a pedagogical method that few American teachers of the era possessed.

### Passage 14

Ecologists study how millions of species share the world, rather than take on the whole planet at once; they generally focus on a single ecosystem, be it a prairie, a tidal flat, or a sand dune. Even within those limits, they are frustrated by **porous frontiers**. As a result, ecologists have done some of their most important work on islands, nature’s own **isolated** laboratories, which may be colonized only a few times over the course of millions of years. On them, ecologists have figured out how the size of a given habitat determine how many species it can

support. They have then applied that knowledge to the mainland, showing how fragmented ecosystems become like archipelagoes, where extinctions can strike.

1. It can be inferred that the term “porous frontiers” is used to refer to
  - A. a tendency for the area of an ecosystem to shrink
  - B. human-caused processes that alter the character of an ecosystem
  - C. movement of species into an ecosystem from outside
  - D. variation in what the term “ecosystem” signifies
  - E. lack of protection for endangered habitats
2. In the context in which it appears, “isolated” most nearly means
  - A. completely uncontaminated
  - B. somewhat unusual
  - C. extremely rare
  - D. relatively inaccessible
  - E. strictly confined

#### Passage 15

Matisse’s art, with its spectacular immediacy and its mysterious depths, poses confounding problems for analysis. When Hilary Spurling writes of *The Piano Lesson* that “the picture cannot be confined to any single source or meaning,” she might be writing of any of Matisse’s works. Picasso’s themes, with their collage of traditional signs and symbols, are far more susceptible to conventional iconographic analysis than anything in Matisse. Similarly, the cubism of Picasso and Braque, while rejecting traditional perspective, can nevertheless be studied as an inversion of traditional norms, using the same tools that one uses to study those norms. But the solutions that Matisse arrives at are always idiosyncratic and tend to be unrelated to any system of ideas. Intuition is his only system.

1. The passage suggests which of the following about Braque’s cubism?
  - A. It lends itself more readily to systematic analysis than does Matisse’s work.
  - B. It is more radical in terms of form than most paintings by Matisse.
  - C. It was influenced by Matisse’s idiosyncratic and intuitive approach.
  - D. It cannot be confined to any single source or meaning.
  - E. It is overly dependent on traditional signs and symbols.

For the following question, consider each of the choices separately and select all that apply.

2. The passage identifies which of the following as a reason that Matisse’s art can confound analysis?
  - A. Traditional analytical tools are not well suited to Matisse’s art.
  - B. Matisse’s art is marked by a freedom from systematic influence.
  - C. The norms that Picasso and Braque rejected were not ones that Matisse rejected

## Passage 16

Constant variations in the amount of sunlight available on Earth at any given location make energy storage a necessary design feature of terrestrial solar-energy systems. For systems transforming solar to thermal energy, the thermal energy may be stored in matter as either latent heat or sensible heat. Latent heat is absorbed or released whenever matter changes phase, as when matter changes form liquid to gas, for example, or from gas to liquid. Large heat capacities are associated with certain materials, like salts, but in any substance this storage is available only at the unique fixed temperature at which the particular phase transition occurs in that substance. Moreover, materials that have transitions at the temperatures that terrestrial solar-energy systems are likely to encounter are usually destructively corrosive at those temperatures. The storage of sensible heat, on the other hand, allows flexibility as to temperature; in addition, safe substances like water and most rocks have large sensible heat capacities.

1. The primary purpose of the passage is to discuss which of the following?
- A. Reasons for the necessity for developing solar-energy systems
  - B. Different ways of storing solar energy as heat
  - C. New designs for devices that collect solar energy
  - D. Procedures for transferring thermal energy between materials
  - E. Differences between capacities of solids and liquids to store sensible heat.

Consider each of the choices separately and select all that apply

2. According to the passage, solar-energy systems located on Earth must store energy for which of the following reasons?
- A. At any given location on Earth, the amount of sunlight available frequently changes.
  - B. The operation of such systems depends on devices that require a power source other than solar energy
  - C. Demand for the energy produced by such systems varies in unpredictable ways

Consider each of the choices separately and select all that apply

3. The author suggests that which of the following constitutes a potential disadvantage of using latent heat for energy storage?
- A. The circumstances under which phase transitions occur would limit the versatility of latent heat as a storage method.
  - B. The supply of substances that possess the properties that are needed in a medium for latent heat storage is dwindling.
  - C. The properties that are needed in a medium for latent heat storage are found in substances that have other, undesirable properties.

## Passage 17

Our terrestrial food supply comes from ecosystems transformed to produce a few comestible species through the removal of competitors, predators, and pests, but marine capture fisheries depend on the overall productivity of natural ecosystems. There is, however, increasing concern about the impact of fishing and other human activities on marine ecosystems, which are now far from pristine. One option for moving toward both biodiversity and terrestrial food supply goals is to produce greater yields from less land, thereby freeing land for conservation purposes. By contrast, the objective of maintaining or restoring the biodiversity of marine ecosystems may conflict with the objective of maintaining or increasing our food supply from the sea, since the level of fishing required to achieve the latter may compromise the former.

1. The primary purpose of the passage is to
  - A. Examine the impact of certain research findings regarding changes to ecosystem biodiversity.
  - B. Discuss a possible implication of a difference between terrestrial and marine food supply sources.
  - C. Describe the consequences of a certain kind of interaction between terrestrial and marine ecosystems.
  - D. Identify an area of ecosystem research in which there are significant uncertainties.
  - E. Present evidence that undermines one side of a debate about biodiversity and supports the other.
2. According to the passage, increasing the food yield per unit of land can have which of the following effects?
  - A. Enabling more land to be used for development purposes
  - B. Compromising progress toward conservation goals
  - C. Helping protect comestible species from competition and predation
  - D. Helping reduce pressure on marine ecosystems
  - E. Helping restore the biodiversity of terrestrial ecosystems

### Passage 18

Many scholars have argued that government investment in manufacturing in the southern United States during the Second World War spurred a regional economic boom that lasted into the postwar period. But much of this investment went to specialized plants, many of them unsuitable for postwar production. Large-scale, wartime government funding led to a massive increase in the number and scale of munitions facilities. By the war's end, 216 munitions establishment costing more than \$3.5 billion had been built, many of them located in the south. Indeed, according to one estimate, more than 70 percent of federally financed manufacturing construction capital in Alabama, Arkansas, Mississippi, and Tennessee went into munitions plants.

Even in the northern regions with strong prewar manufacturing economics, these plants were difficult to deal with once the imperative of war had been removed. In the south few industrialists had the capacity or desire to transform these factories to a peacetime function. Accordingly, at war's end almost all of the southern munitions facilities were shut down, placed



on standby, operated at a very low capacity, or converted to nonmanufacturing functions, usually storage. Although some reopened a few years later for use during the Korean War, the impact of the special plants on the South's postwar economy was marginal at best.

1. The primary purpose of the passage is to
  - A. propose an alternative explanation
  - B. challenge a widely held position
  - C. contrast two views of a phenomenon
  - D. explain why a particular claim has been influential
  - E. evaluate evidence used to support a particular view

For the following question, consider each of the choices separately and select all that apply.

2. According to the passage, some southern munitions plants built in the South during the Second World War were
  - A. later reopened and used once more as munitions plants
  - B. used for nonmanufacturing purposes after the war
  - C. originally envisioned as continuing to manufacture munitions at high capacity even after the war had ended
3. In the passage, the mention of "Alabama, Arkansas, Mississippi, and Tennessee" serves primarily to
  - A. suggest that some states were better than others at anticipating postwar economic needs
  - B. identify evidence used to support a view held by scholars mentioned at the beginning of the passage
  - C. suggest that federal investment in some kinds of manufacturing was excessive
  - D. identify the states that received the largest allocations of federal funds
  - E. provide information to support a point about the nature of government investment made earlier in the paragraph

### Passage 19

Although the passenger pigeons, now extinct, were abundant in eighteenth- and nineteenth-century America, archaeological studies at twelfth-century Cahokian sites in the present day United States examined household food trash and found that traces of passenger pigeon were quite rare. Given that the sites were close to a huge passenger pigeon roost documented by John James Audubon in the nineteenth century and that Cahokians consumed almost every other animal protein source available, <sup>Q2</sup>**the archaeologists conducting the studies** concluded the passenger pigeon population had once been very limited before increasing dramatically in post-Columbian America. Other archaeologists have criticized those conclusions on the grounds that passenger pigeon bones would not be likely to be preserved. But all the archaeological projects found plenty of bird bones- and even <sup>Q1</sup>**tiny bones from fish**.

1. The author of the passage mentions "tiny bones from fish" primarily in order to

- A. explain why traces of passenger pigeon are rare at Cahokian sites
  - B. support a claim about the wide variety of animal proteins in the Cahokian diet
  - C. provide evidence that confirms a theory about the extinction of the passenger pigeon
  - D. cast doubt on the conclusion reached by the archaeologists who conducted the studies discussed in the passage
  - E. counter an objection to an interpretation of the data obtained from Cahokian sites
2. Which of the following, if true, would most call into question the reasoning of “the archaeologists conducting the studies”?
- A. Audubon was unable to correctly identify twelfth-century Cahokian sites
  - B. Audubon made his observations before passenger pigeon populations began to decline.
  - C. Passenger pigeons would have been attracted to household food trash
  - D. Archaeologist have found passenger pigeon remains among food waste at eighteenth-century human settlements
  - E. Passenger pigeons tended not to roost at the same sites for very many generations

### Passage 20

Feminist scholars have tended to regard women in the nineteenth-century United States who elected to remain single as champions of women’s autonomy and as critics of marriage as an oppressive institution. Indeed, many nineteenth-century American women who participated in reform movements or who distinguished themselves as writers and professionals were single. Yet this view of single women tends to distort the meaning of their choices. The nineteenth century saw the elevation of marriage for love as a spiritual ideal. Consequently, it became socially acceptable for women not to marry if such an ideal marriage could not be realized with an available suitor. Thus, many women’s choice to remain single reflected not a negative view of marriage but a highly idealistic one.

1. The author of the passage implies that many nineteenth-century American women chose to remain single because they
- A. believed that marriage required them to give up much of their autonomy
  - B. had attitudes toward marriage that were influenced by contemporary reform movements
  - C. wanted to take advantage of increasing opportunities to distinguish themselves as professionals
  - D. doubted that their own marriage would live up to their notion of what a marriage ought to be
  - E. had a negative view of marriage fostered by a change in social attitudes during the nineteenth century

For the following question, consider each of the choices separately and select all that apply.

2. The author of the passage suggests that the feminist scholars mentioned in the first sentence distort the meaning of certain nineteenth-century American women’s choices by
- A. ascribing those choices to a particular attitude toward marriage

- B. ignoring evidence about single women's motives for becoming writers or professionals
- C. overestimating the number of nineteenth-century American women who were single by choice.

### Passage 21

Many researchers attribute the large number of physiological and behavioral similarities between birds and mammals, which have separate evolutionary histories, to endothermy (a thermoregulatory strategy whereby warm body temperature is maintained through internal heat sources). However, Farmer argues that parental care rather than endothermy is the key to understanding the similarities between mammals and birds. According to Farmer, while endothermy provides an explanation for a few similarities, such as the presence of body insulation, endothermy is just one characteristic among many related to parental care. The two purported advantages of endothermy that have been most frequently cited by researchers are an expanded range of inhabitable environments and the ability to sustain vigorous exercise. But metabolism has to increase substantially (at great energy cost) therefore conferring any significant thermoregulatory advantage in terms of the former, and there is no causal biological linkage to explain why endothermy would be essential to sustain exercise. Farmer argues instead that endothermy evolved as a means to control incubation temperature and that the ability to sustain exercise evolved separately, as a means to improve a parent's ability to forage and provision its young.

1. The primary purpose of the passage is to
  - A. present a scientific theory that challenges a widely held theory
  - B. summarize the basis for a large body of scientific research
  - C. defend an established scientific theory in light of recent criticism
  - D. express skepticism about the results obtained by a particular researcher
  - E. compare the results of two particular scientific studies
2. Which of the following best characterizes the organization of the passage as a whole?
  - A. A position is noted, an alternative to that position is introduced, and then several points in support of the alternative are discussed.
  - B. A theory is discussed, an inconsistency within that theory is illustrated, and then a recommendation is made for further inquiry.
  - C. Certain research results are described, the significance of those results is explained, and then a novel interpretation of those results is summarized.
  - D. A question is posed, a possible answer to that question is suggested, and then evidence is provided to corroborate that answer.
  - E. A debate is outlined, contrasting viewpoints within the debate are discussed, and then one viewpoint is demonstrated to be correct.
3. According to the passage, Farmer concedes that endothermy provides an explanation for which of the following features shared by birds and mammals?
  - A. The ability to forage

- B. The ability to sustain exercise
- C. The instinct to care for offspring
- D. Flexibility in habitat usage
- E. Body insulation

### Passage 22

Prominent among theories of the function of sleep is Meddis' immobilization hypothesis, which holds that sleep, rather than serving a restorative function, plays a protective role during times that animals cannot be usefully engaged in other activities. Meddis reasoned that animals not immediately threatened by predators would be safer if they passed the time sleeping. **Sleep would prevent an animal from moving or responding to nonthreatening stimuli in ways that might attract the attention of predators.**

However, that hypothesis cannot easily explain why one often observes a rebound in sleep time or intensity following a period of sleep deprivation. Neither does the hypothesis explain the existence of various states of sleep, which themselves may be associated with different functions.

For the following question, consider each of the choices separately and select all that apply.

1. According to the passage, the immobilization hypothesis fails to account for which of the following facts?
  - A. That sleep does not appear to be a uniform and unchanging state
  - B. That under certain conditions animals appear to need more sleep than usual
  - C. That animals rarely sleep when a predator has been detected nearby
2. In the context of the passage as a whole, the highlighted portion serves primarily to
  - A. present the thinking that led scientists to qualify a widely accepted view
  - B. describe the basis on which a hypothesis was advanced
  - C. illustrate the kind of reasoning that is applied in a branch of science
  - D. explain how a hypothesis can be tested empirically
  - E. relate the analysis that refined a tentative explanation

### Passage 23

In 1755 British writer Samuel Johnson published an acerbic letter to Lord Chesterfield rebuking his patron for neglecting and declining further support. Johnson's rejection of his patron's belated assistance has often been identified as a key moment in the history of publishing, marking the end of the culture of patronage. However, **patronage had been in decline for 50 years, yet would survive, in attenuated form, for another 50.** Indeed, Johnson was in 1762 awarded a pension by the Crown—a subtle form of sponsorship, tantamount to state patronage. The importance of Johnson's letter is not so much historical as emotional; it would become a touchstone for all who repudiated patrons and for all who embraced the laws of the marketplace.

1. The author of the passage mentions Johnson's 1762 pension award in order to
  - A. Reveal that Johnson remained consistent in his rebuke of Lord Chesterfield well after 1755
  - B. Provide evidence for a general trend in the later half of the eighteenth century of private patronage's being replaced by state sponsorship
  - C. Situated the debate over the end of patronage within the wider realm of eighteenth-century economic history
  - D. Suggest that Johnson's letter to Chesterfield was noticed by the crown only years after it was published
  - E. Emphasize that patronage still helped support Johnson's writing after his letter to Chesterfield
2. Which of the following best describes the function of the highlighted sentence in the context of the passage as a whole?
  - A. It points out the most obvious implications of Johnson's letter to his patron
  - B. It suggests a motivation for Johnson's rejection of Chesterfield's patronage
  - C. It provides information that qualifies the assertion that Johnson's letter sharply defined the end of a publishing era
  - D. It provides a possible defense for Chesterfield's alleged neglect of Johnson
  - E. It refutes the notion that patrons are found primarily among the nobility

#### Passage 24

Was resource intensification—an increase in labor and time devoted to subsistence activities in order to increase food yields—by Dorset Paleo-Eskimos and Recent Indians on the island of Newfoundland simply a response to population pressure? Not exactly. On Newfoundland, population pressure did not result from a steadily growing resident population but, rather, from the arrival and lingering presence of new and significantly different populations. Newfoundland's hunter-gatherer populations—both resident and newcomer—adjusted to the presence of other populations through niche differentiation. Building on a tradition that emphasized marine resources, Dorset Paleo-Eskimos intensified their harvest of seals in response to the arrival of Recent Indians in the first few centuries A.D. **Recent Indians who were more familiar with broad-based, interior-maritime adaptation, intensified this strategy to cope with the Dorset.**

1. According to the passage, which of the following resulted from the arrival of the Recent Indians?
  - A. The Dorset Paleo-Eskimos were forced to compete with the Recent Indians for a limited supply of seals.
  - B. The Dorset Paleo-Eskimos spent more time harvesting seals than they had in the past.
  - C. The Dorset Paleo-Eskimos increased the amount of labor and time devoted to defending their territory.
  - D. The Dorset Paleo-Eskimos began to adopt new subsistence strategies they learned from the Recent Indians.
  - E. The previously steady growth of the Dorset Paleo-Eskimo population came to a halt.



2. Which of the following best describes the function of the highlighted sentence in the context of the passage as a whole?

- A. It points out a flaw in a theory discussed earlier in the passage.
- B. It demonstrates the need for additional research on a phenomenon mentioned earlier in the passage.
- C. It underscores the importance of a trait mentioned earlier in the passage.
- D. It supports an assertion made earlier in the passage.
- E. It questions the evidence for a tradition mentioned earlier in the passage.

### Passage 25

In 1919 Britain experienced its largest ever reduction in industrial working hours, to 48 per week. In Dowie's view the 48-hour week played a central role in Britain's poor economic performance during the 1920s. Dowie argued that the reduction, together with rapid wage growth, drove up prices. However, Greasley and Oxley found that the First World War (1914-1918) constituted a more powerful negative macroeconomic shock to Britain's competitiveness. And Scott argues that Dowie's thesis ignores considerable evidence that hourly productivity improves when hours are reduced from a high base level. Crucially, Dowie's thesis does not acknowledge that hours were reduced to around 48 hours a week for industrial workers in most industrialized nations at this time so far—undermining any potential impact of reduced hours on industrial productivity relative to other nations.

1. Which of the following, if true, provides the strongest support for Scott's argument?
  - A. Companies have generally found that part-time employees are less productive than full-time ones.
  - B. When the total number of hours worked at a company increases owing to the addition of more employees, the usual result is improved productivity at the company.
  - C. When the total hours worked by all employees per week in two companies are equivalent, hourly productivity tends to be equivalent as well.
  - D. Companies whose employees usually work a high number of hours tend to have greater total costs than do similar companies whose employees work fewer hours.
  - E. Companies have found that total output per employee is not necessarily changed by reductions in the number of hours worked per employee.
2. It can be inferred from the passage that in the view of Greasley and Oxley
  - A. a reduced workweek was ultimately beneficial to employees
  - B. the economic effects of the reduction in working hours in 1919 were brief
  - C. Britain became less economically competitive in the 1920s
  - D. reduced working hours were the primary cause of the economic changes observed by Dowie
  - E. the changes in economic performance in Britain in the 1920s were unforeseen

### Passage 26

The finding that there were rock-melting temperatures on asteroids for sustained periods is puzzling: asteroids' heat source is unknown, and unlike planet-sized bodies, such small bodies quickly dissipate heat. Rubin suggests that asteroids' heat could have derived from collisions between asteroids. Skeptics have argued that a single impact would raise an asteroid's overall temperature very little and that asteroids would cool too quickly between impacts to accumulate much heat. However, these objections assumed that asteroids are dense, solid bodies. A recent discovery that asteroids are highly porous makes Rubin's hypothesis more plausible. When solid bodies collide, much debris is ejected, dissipating energy. Impacts on porous bodies generate less debris, so more energy goes into producing heat. Heat could be retained as debris fall back into impact craters, creating an insulating blanket.

1. The passage suggests that one factor that has made it difficult to account for the temperatures once reached by asteroids is

- A. a miscalculation of the frequency of asteroid collisions
- B. a misconception about asteroids' density
- C. a mistaken assumption about what the heat source of the asteroids was
- D. an underestimation of the rate at which small bodies lose heat
- E. an erroneous view of how asteroids were formed

For the following question, consider each of the choices separately and select all that apply.

2. It can be inferred from the passage that Rubin disagrees with skeptics mentioned in the passage about which of the following?

- A. Whether porous bodies generate less debris when struck than do solid bodies
- B. The temperatures asteroids would have to reach for their rocks to have melted
- C. The likely effect of impacts on asteroids' temperatures

### Passage 27

Unlike herbivores and omnivores, predators have traditionally been thought not to balance nutrient intake because of the assumption that animal tissue as a food source varies little and is nutritionally balanced. But chemical analysis of invertebrate prey reveals remarkable variation in nutrient composition among species; even within species, nutrient composition may vary considerably. Greenstone suggested that predators may select food items according to their nutrient contents. Jensen *et al* (2011) have shown experimentally that even sit-and-wait invertebrate predators with limited mobility can work to address nutrient deficiencies. The wolf spider, for instance, has been shown to regulate nutrient intake by extracting more dry mass from a prey item if it contains a higher proportion of a nutrient that was deficient in the previous prey.

1. The passage supplies information for answering which of the following questions?

- A. Do invertebrate predators with full mobility address nutrient needs in the same fashion as sit-and-wait invertebrate predators with limited mobility?
- B. Why would there be a considerable variation in nutrient composition within prey of a given

species?

- C. Is all of the nutrient content of invertebrate prey contained in the dry mass?
- D. What would a wolf spider do if a fly it was eating contained a higher proportion of a certain nutrient than was present in the spider's recent prey?
- E. How is a wolf spider able to determine that some prey it is eating contains a higher proportion of a nutrient that was deficient in the previous prey?

2. Which of the following best describes the organization of the passage as a whole?

- A. A phenomenon is described, and an interpretation is offered.
- B. A claim is made, and the corroborating evidence is evaluated.
- C. A hypothesis is presented and undermined by recent findings.
- D. A contrast is noted and shown to be specious based on recent findings.
- E. A series of assumptions is presented and shown to be based on sound reasoning.

### Passage 28

Having a larger assortment to choose from increases consumers' expectations about matching their preferences. The heightened expectations seem logical, since assortments containing more or more varied items should increase the degree to which preferences can be matched. In practice, however, as assortment size increases, the degree to which consumers realize better preference matches often rises relatively little. Larger assortments may not actually offer more variety, the market may simply not supply an envisioned offering, or in the absence of sophisticated search tools, consumers may miss a better preference match even if it is available. Therefore, larger assortments can increase the likelihood that expectations will not be met, **leaving consumers less satisfied with options chosen from larger rather than smaller assortments.**

1. In the highlighted portion of the passage, the author assumes that

- A. consumers' attitude toward the assortment of choices they are presented with depends almost exclusively on the size of the range
- B. consumers who have clear preferences make their choices more quickly than those whose preferences are relatively vague
- C. consumers' anticipation of meeting specific expectations directly affects their satisfaction with a selected option
- D. consumers presented with an assortment of choices often adjust the preferences they had beforehand
- E. consumers presented with a larger assortment of choices often make their decisions too quickly

2. Which of the following best describes the function of the first sentence in the author's argument as a whole?

- A. It states a premise on which the author's conclusion is based
- B. It provides information to support the inference made in the following sentence
- C. It introduces a concept that the author proves is illogical

- D. It summarizes a position that the author proceeds to dispute
- E. It presents the phenomenon the argument is intended to explain

### Passage 29

Astronomers who study planet formation once believed that comets—because they remain mostly in the distant Oort cloud, where temperatures are close to absolute zero—must be pristine relics of the material that formed the outer planets. The conceptual shift away from seeing comets as pristine relics began in the 1970s, when **laboratory simulations** revealed there was sufficient ultraviolet radiation reaching comets to darken their surfaces and there were sufficient cosmic rays to alter chemical bonds or even molecular structure near the surface. Nevertheless, astronomers still believed that when a comet approached the Sun—where they could study it—the Sun’s intense heat would remove the corrupted surface layer, exposing the interior. **About the same time, though, scientists realized comets might contain decaying radioactive isotopes that could have warmed cometary interiors to temperatures that caused the interiors to evolve.**

1. The author suggests that the realization described in the final sentence of the passage had which of the following effects?
  - A. It introduced a new topic for study by astronomers interested in planetary formation.
  - B. It led astronomers to adopt a number of different strategies in trying to determine the composition of cometary interiors
  - C. It called into question an assumption that astronomers had made about comets
  - D. It cast doubt on astronomers’ ability to study the interior parts of comets.
  - E. It caused astronomers to revise their account of the composition of the outer planets.

For the following question, consider each of the choices separately and select all that apply.

2. It can be inferred that the author would agree with which of the following statements about the “laboratory simulations”?
  - A. The simulations showed that despite the low temperatures in the Oort cloud, there was sufficient energy there to alter comet
  - B. Astronomers were initially reluctant to accept what simulation showed about the composition of comets
  - C. The simulations themselves did not eliminate the possibility that comets contain pristine relics of material from the early solar system.

### Passage 30

Pueblo Bonito, the most impressive of the “great houses” at the prehistoric Chaco Canyon site in New Mexico, comprised over 600 rooms and 4 to 5 stories. Traditional interpretations have viewed the great houses as almost entirely residential, with some archaeologists estimating the population of Pueblo Bonito at 1,200. But Windes recently challenged this view by pointing out the paucity of hearths recorded during the excavation of

Pueblo Bonito, which revealed only 3 upper-story hearths, in contrast to 59 ground-floor hearths: habitation rooms would have required hearths for cooking and heat. It is possible, however, that the collapse of upper-story floors disturbed evidence of upper-story hearths to such an extent that they were not revealed by early excavations such as those conducted by Pepper's field crews in the 1890s and Judd's in the 1920s. Additionally, reliance on room features for early population estimates is complicated by the Chacoan's later remodeling, especially given Judd's disinclination to destroy later structures and features to expose earlier ones. The failure of early excavations to strip off intact floors may have concealed evidence of hearths in upper-story rooms.

1. The author of the passage would be most likely to agree with which of the following statements about Windes' argument?
  - A. It relies on evidence that is irrelevant to the examination of structures as large as Pueblo Bonito
  - B. It fails to acknowledge crucial evidence from great houses other than Pueblo Bonito
  - C. It fails to incorporate crucial evidence from excavations before the 1920s.
  - D. It is based on a false notion about the significance of hearths.
  - E. It is based on evidence that may be incomplete.
2. It can be inferred from the passage that Windes would be most likely to agree with which of the following statements about room usage in Pueblo Bonito?
  - A. Upper-story rooms were rarely used as storage areas.
  - B. Rooms that were remodeled were most likely to have been residential rooms.
  - C. The majority of residential rooms were located on the ground floor.
  - D. Early excavations of Pueblo Bonito disturbed much of the evidence indication room usage.
  - E. Upper-story rooms with hearths were probably used for different purposes than were lower story rooms with hearths.
3. Which of the following can be inferred about the excavation work performed by Judd's field crew?
  - A. It did not unearth many room features that existed prior to Chacoan remodeling.
  - B. It did not unearth any evidence of upper-story hearths.
  - C. It revealed only habitation rooms.
  - D. It resulted in the collapse of some room features and upper-story floors.
  - E. It confirmed traditional population estimates for Pueblo Bonito.

### Passage 31

There have long been dead zones—water too low in oxygen to sustain most forms of life—in the Gulf of Mexico, which receives the waters of the Mississippi River. Scientists studied sediment cores from areas where the gulf's most recent dead zone occurred. The scientists dated the sediment and counted species of foraminifera (marine protozoans) in the sediment; these species thrive in low-oxygen waters. As far back as 1823, the foraminifera thrived especially during Mississippi River flood years (during which nutrients levels increase), suggesting that



nutrients in floodwaters can trigger low-oxygen water. **The foraminifera in the core samples were most abundant after 1950, when farmers began using some fertilizer, which is rich in nutrients.** Researchers believe that increased use of fertilizer leads to more-extreme dead zones.

1. Which of the following best describes the function of the highlighted sentence in the context of the passage as a whole?

- A. It reconciles two opposing theories that were discussed earlier in the passage.
- B. It suggests what the initial impetus was for the studies mentioned earlier in the passage.
- C. It undermines a hypothesis that was presented in the preceding sentence.
- D. It describes a problem with the methodology of the studies discussed in the passage.
- E. It provides evidence supporting the belief mentioned in the final sentence of the passage.

For the following question, consider each of the choices separately and select all that apply.

2. It can be inferred from the passage that the “researchers” would agree with which of the following statements about the use of fertilizer?

- A. If farmers near the Mississippi River decreased the amount of fertilizer that they used, the severity of the dead zones could be diminished.
- B. If farmers near the Mississippi River continue their dependence upon fertilizers, foraminifera population will eventually decline.
- C. If farmers near the Mississippi River stopped using fertilizers altogether, there would no longer be dead zones.

### Passage 32

Biologists know that some marine algae can create clouds by producing the gas dimethyl sulphide (DMS), which reacts with oxygen in air above the sea to form solid particles. These particles provide a surface on which water vapor can condense to form clouds. Lovelock contends that this process is part of global climatic-control system. According to Lovelock, Earth acts like a super organism, with all its biological and physical systems cooperating to keep it healthy. He hypothesized that warmer conditions increase algal activity and DMS output, seeding more clouds, which cool the planet by blocking out the Sun. Then, as the climate cools, algal activity and DMS level decrease and the cycle continues. In response to biologists who question how organisms presumably working for their own selfish ends could have evolved to behave in a way that benefits not only the planet but the organisms as well, cooling benefits the algae, which remain at the ocean surface, because it allows the cooled upper layers of the ocean to sink, and then the circulating water carries nutrients upward from the depths below. Algae may also benefit from nitrogen raining down from clouds they have helped to form.

1. According to the passage, which of the following occurs as a result of cooling in the upper layers of the ocean?

- A. The concentration of oxygen in the air above the ocean's surface decreases.
- B. The concentration of DMS in the air above the ocean's surface increases.

- C. The nutrient supply at the surface of the ocean is replenished.
  - D. Cloud formation increases over the ocean.
  - E. Marine algae make more efficient use of nutrients.
2. Which of the following is most similar to the role played by marine algae in the global climate control system proposed by Lovelock?
- A. A fan that continually replaces stale air in a room with fresh air from outside.
  - B. A thermostat that automatically controls an air-conditioning system.
  - C. An insulating blanket that retains heat.
  - D. A filter used to purify water.
  - E. A dehumidifier that constantly removes moisture from the air in a room.
3. The passage mentions the possible benefit to algae of nitrogen falling down in the rain most likely in order to
- A. Provide support for Lovelock's response to an objection mentioned in the passage.
  - B. Suggest that the climatic effects of DMS production have been underestimated.
  - C. Acknowledge that Lovelock's hypothesis is based in part on speculation.
  - D. Demonstrate that DMS production alters the planet in more than one way.
  - E. Assert that algae are the sole beneficiaries of DMS production.

### Passage 33

When Earth formed 4.6 billion years ago, the Sun burned only 70 percent as brightly as it does today. Yet Geologic record contains no evidence for widespread glaciation until 2.3 billion years ago. Sagan and Mullen suggested in the 1970s that ammonia, a greenhouse gas, warmed early Earth's atmosphere, but subsequent research showed that the Sun's ultraviolet rays rapidly destroy ammonia in an oxygen-free environment, such as that of early Earth. Many scientists now attribute much of the warming of early Earth to oxygen-intolerant microbes—methanogens—that produce the greenhouse gas methane. **The methanogen hypothesis could help to explain the first global ice age: 2.3 billion years ago, Earth's atmosphere began to fill with oxygen produced by other microbes—cyanobacteria—causing methanogens to decline rapidly.**

1. Which of the following best describes the function of the highlighted sentence?
- A. It refutes the possibility of a connection between two events previously thought to be related.
  - B. It describes how a hypothesis might account for the timing of a phenomenon described earlier in the passage
  - C. It presents evidence that casts doubt on a statement made in the first sentence of the passage
  - D. It clarifies a distinction between two related hypotheses
  - E. It introduces findings that challenge a dominant explanation for a particular phenomenon
2. Which of the following can be inferred from the passage about methanogens?
- A. Methanogens must have appeared on Earth later than 2.3 billion years ago.
  - B. Methanogens must have been much more prevalent in some regions of the early Earth than

in others.

C. Methanogens produce a greenhouse gas that is more susceptible to destruction by the Sun's ultraviolet rays than is ammonia.

D. Methanogens could not have thrived in early Earth's atmosphere without the presence of ammonia.

E. Methanogens would have had a less significant effect on early Earth's atmosphere if they had evolved after the appearance of cyanobacteria.

#### Passage 34

Some researchers claim that cetaceans—whales and dolphins—have culture, which the researchers define as the ability to learn from one another. Skeptics, however, demand clear evidence that cetaceans can acquire new behaviors through some form of social learning, preferably clear-cut instances of imitation or teaching. But such evidence is difficult to obtain. While few people doubt that captive cetaceans are adept at imitation or that they reproduce behaviors taught by researchers, biologists seeking insight into cetaceans' behavior in their natural habitats must rely on deduction rather than experiments. **If members of a particular group share behaviors that do not result from genetic inheritance or environmental variation, then they have almost certainly learned them by watching, following, or listening to other animals.**

1. Which of the following best describe the function of the highlighted sentence?

A. It identifies a factor that complicates biologists' ability to draw conclusions about the behavior of cetaceans in their natural environments.

B. It illustrates the kind of deduction mentioned in the preceding sentence.

C. It explains why skeptics have remained unpersuaded by evidence that has been put forward in support of the claim that cetaceans have culture.

D. It introduces a claim that would be dismissed by both supporters and opponents of the view that cetaceans have culture.

E. It notes a previously overlooked factor that might shed light on the question of whether cetaceans have culture.

2. The passage suggests which of the following about captive cetaceans?

A. Whether they are engaged in social learning is a subject of disagreement among biologists.

B. Their ability to imitate new behaviors is more extensive than that of noncaptive cetaceans.

C. They exhibit few behaviors that have not also been observed in cetaceans in their natural habitats.

D. They appear to adopt new behaviors more quickly than noncaptive cetaceans.

E. They exhibit tendencies that suggest a capacity for the kind of behavior that qualifies as cultural.

#### Passage 35

Hotter and more massive than the Sun, stars called "stragglers" are puzzling to astronomers

because such rapidly burning stars would not be expected to persist in ancient star clusters. **Some researchers believe that the typical blue stragglers formed when two ancient, lower-mass stars collide and merge form more massive, hotter star.** Peter Leonard theorizes alternatively that in low density globular clusters, where mergers between single stars occur too infrequently to account for the observed quantity of blue stragglers, these stragglers are created instead by a group of stars. He suggests that a pair of stars already orbiting each other presents a **larger target** for a third star or another pair. Once this new grouping forms, close encounters between the stars could prompt any two to merge as a blue straggler. Leonard's model predicts that each blue straggler has a distant orbiting companion—as appears true of many blue stragglers in the M67 cluster of the Milky Way galaxy.

1. The reference to a “larger target” serves primarily to suggest why a
  - A. blue straggler would be more likely to collide and merge with another star than would be a lower-mass star
  - B. pair of stars would be more likely to encounter other stars than would the typical blue straggler
  - C. pair of stars would be more likely to interact with other stars than would a single star
  - D. blue straggler would be more likely to interact with a pair of stars than it would with a third star
  - E. third star would be more likely to encounter a pair than it would to encounter a blue straggler
2. Information presented in the passage suggests which of the following about blue stragglers?
  - A. They originate from stars that are hotter and more massive than the Sun.
  - B. They are burning more rapidly than other types of stars observed in ancient star clusters.
  - C. They are older than most other types of stars within the same star cluster.
  - D. They are less numerous in low-density globular clusters than are pairs of stars.
  - E. They generally originate from the oldest stars among those found in ancient star clusters.
3. The passage cites which of the following as evidence undermining the theory presented in the second sentence?
  - A. A discrepancy between the number of mergers between single stars in certain low-density globular clusters and that in other low-density globular clusters
  - B. A discrepancy between the heat and mass of blue stragglers formed by one type of process and the heat and mass of blue stragglers formed by another type of process
  - C. A discrepancy between the frequency of star mergers in low-density globular clusters and those in high-density globular clusters
  - D. A discrepancy between the amount of heat and mass of ancient single stars and that of blue stragglers
  - E. A discrepancy between the number of mergers between single stars in certain star clusters and the number of blue stragglers in those clusters

### Passage 36

Most seismologists assume that following a major earthquake and its aftershocks, the fault

(a break in Earth's crust where pressure can trigger an earthquake) will remain quiet until stresses have time to rebuild, typically over hundreds or thousands of years. Recent evidence of subtle interactions between earthquakes may overturn this assumption, however. According to the stress-triggering hypothesis, faults are unexpectedly responsive to subtle stresses they acquire as neighboring faults shift. Rather than simply dissipating, stress relieved during an earthquake travels along the fault, concentrating in sites nearby; even the smallest additional stresses may then trigger another quake along the fault or on a nearby fault. Although scientists have long viewed such subtle interactions as nonexistent, the hypothesis has explained the location and frequency of earthquakes following several destructive quakes in California, Japan, and Turkey.

1. According to the passage, which of the following is an assumption that may be invalidated by recent seismological evidence?

- A. Earthquakes are caused by stresses building up in faults within Earth's crust.
- B. Most major earthquakes can be predicted with reasonable accuracy.
- C. Faults are highly responsive to even minor stresses in neighboring faults.
- D. Most major earthquakes are followed by predictable aftershocks.
- E. A fault that has resulted in a major earthquake becomes quiet for a long period.

For the following question, consider each of the choices separately and select all that apply.

2. The passage suggests that most seismologists believe which of the following about fault stresses?

- A. They are dissipated when they result in an earthquake.
- B. They are transferred between neighboring faults.
- C. They will not cause a major earthquake along the same fault in the space of a few years.

### Passage 37

MacArthur and Wilson suggested that the biodiversity of an island will vary in direct proportion to a function of the island's size (i.e., larger islands can support a greater number of species) and in inverse proportion to a function of its distance from the mainland (i.e., many remote islands will tend to support fewer species). Reduced biodiversity in an island context is likely to require significant adaptation on the part of colonizing human populations. Evans argues that this limitation makes islands ideal laboratories for the study of human adaptations to the natural environment, whilst Renfrew and Wagstaff, in the introduction to their study of Melos, focus on this limitation in biodiversity as a "significant characteristic of the island ecosystem." For human communities, however, this limitation may potentially be offset by other factors. The reduced biodiversity of an island ecosystem applies only to terrestrial resources: the resources of the sea will be as rich as on any other coastal area, and may be equally important to human communities. A small island such as Malta or Melos allows all communities direct access to the sea, providing an important nutritional "safety net," as well as an element of dietary diversity, which may actually give island communities an advantage over their landlocked counterparts. Islands may also have specific nonbiological resources (such as



obsidian on Melos), which may be used in exchange with communities on other islands and adjacent mainlands.

1. The primary purpose of the passage is to
  - A. evaluate two contrasting approaches to island biodiversity
  - B. discuss the relevance of certain data pertaining to island biodiversity
  - C. call into question a particular understanding of island biodiversity
  - D. consider various reasons for reduced biodiversity on islands
  - E. contrast large and small islands in terms of overall biodiversity

For the following question, consider each of the choices separately and select all that apply.

2. According to the author, factors of potential importance to human communities on islands include
  - A. the accessibility of the sea's resources
  - B. a diet superior in some respects to the diet of landlocked communities
  - C. nonbiological resources that can be exploited
3. The author suggests that in considering the biodiversity of islands, Evans
  - A. focuses too exclusively on terrestrial resources
  - B. misunderstands the relationship between an island's size and its terrestrial resources
  - C. misinterprets the work of MacArthur and Wilson
  - D. is wrong to assume that more remote islands support fewer species
  - E. downplays the ways that human communities adapt to island biodiversity

### Passage 38

A critical consensus has emerged that Mary McCarthy will be remembered primarily as an essayist rather than as a novelist. But despite her formidable gifts as a polemical and **discursive** writer, and for all her reputation as an intellectual who sacrificed feeling to intelligence, what powers McCarthy's best essays are her fictional rather than strictly intellectual gifts. She makes her points by telling stories or by way of vivid description, arresting images and subtle characterization. And for all her exacting sense of fact, McCarthy's greatest contribution was to blur the distinctions between different kinds of prose writing: to show how fiction could be opened up to the thinking mind and how essays could profit from the techniques of fiction.

For the following question, consider each of the choices separately and select all that apply.

1. The author of the passage suggests that Mary McCarthy's writing is characterized by
  - A. The use in her essays of devices more typical in works of fiction
  - B. A narrowing of the differences between narrative and expository prose
  - C. Careful attention to factual accuracy.
2. In the context in which it appears, "discursive" most nearly means

- A. Prolific
- B. Sophistic
- C. Rambling
- D. Analytical
- E. Circuitous

### Passage 39

One reason researchers have long believed that Mars never enjoyed an extensive period of warm and wet climate is that much of the surface not covered by wind-borne dust appear to be composed of unweathered material. **If water flowed for an extended period, researchers reasoned, it should have altered and weathered the volcanic minerals, creating clays or other oxidized, hydrated phases (minerals that incorporate water molecules in their crystal structure).**

It turns out, though, that the scientists were not looking closely enough. New high-resolution mapping data and close-up surface studies have revealed clays and other hydrated minerals in many regions. The clay deposits are scattered all over, in ancient volcanic surfaces and heavily cratered highland regions, some of which have apparently been exposed by erosion only recently.

1. According to the passage, scientists are able to discover weathered material on the Martian surface because they have benefited from which of the following?
  - A. A new method to analyze volcanic craters created on the Martian surface
  - B. An improved ability to detect hydrated materials on the Martian surface
  - C. A more sophisticated understanding of the effect of wind-borne dust on the Martian surface
  - D. A decision to look for water primarily in heavily cratered highland regions
  - E. A better understanding of how erosion might affect clay deposits

For the following question, consider each of the choices separately and select all that apply.

2. It can be inferred from the passage that the author would agree with which of the following statements regarding the reasoning discussed in the highlighted sentence?
  - A. It provides the basis for an explanation of why water on Mars has been difficult to find until recently.
  - B. It correctly identifies a consequence of water flowing on the Martian surface.
  - C. It depends on a false assumption about how water and volcanic materials interact on Mars.

### Passage 40

Some archaeologists speculate that the Americas might have been initially colonized between 40,000 and 25,000 years ago. However, to support this theory it is necessary to explain the absence of generally accepted habitation sites for that time interval in what is now the United States. Australia, which has a smaller land area than the United States, has many such sites, supporting the generally accepted claim that the continent was colonized by humans at

least 40,000 years ago. Australia is less densely populated (resulting in lower chances of discovering sites) and with its overall greater aridity would have presented conditions less favorable for hunter-gatherer occupation. Proportionally, at least as much land area has been lost from the coastal regions of Australia because of postglacial sea-level rise as in the United States, so any coastal archaeological record in Australia should have been depleted about as much as a coastal record in the United States. Since there are so many resource-rich rivers leading inland from the United States coastlines, it seems implausible that a growing population of humans would have confined itself to coasts for thousands of years. If inhabitants were present 25,000 years ago, the chances of their appearing in the archaeological record would seem to be greater than for Australia.

1. The passage is primarily concerned with doing which of the following?
  - A. Presenting an objection to a claim
  - B. Accounting for an apparent anomaly
  - C. Outlining an alternative interpretation
  - D. Correcting a particular misconception
  - E. Questioning the validity of a comparison
2. The author of the passage implies which of the following about 25,000 years ago?
  - A. The coastline of the region that is now the United States is longer than it was 40,000 years ago.
  - B. Rivers in what is now the United States were numerous than they are now.
  - C. Australia was less densely populated at that time than was the region that is now the United States.
  - D. Australia's climate was significantly drier than it is now.
  - E. Global sea level was lower than it is now.
3. The author of the passage implies that, in what is now the United States, archaeological evidence of inhabitation in the period from 40,000 to 25,000 years ago is lacking because that region is
  - A. had its oldest habitation sites inundated following a postglacial rise in sea level
  - B. has many resource-rich rivers that facilitated the dispersal of early inhabitants from an initial concentration in coastal areas
  - C. was sparsely populated until about 25,000 years ago
  - D. was colonized less than 25,000 years ago
  - E. was inhabited only by hunter-gatherers until 25,000 years ago

#### Passage 41

For years, the leading theory for what caused the Younger Dryas (a dramatic reversal, about 12,900 years ago, in a global warming trend) was a release of water from Glacial Lake Agassiz. The theory posited that this meltwater flooded into the North Atlantic, lowering the salinity and intensity of surface waters enough to prevent them from sinking. Ocean currents were changed in such a way that northward transport of heat in the ocean diminished, and the

North Atlantic regions plunged back into near-glacial conditions. However, evidence has emerged that the Younger Dryas began long before freshwater flooded the North Atlantic. Additionally, the temperature changes included by a shutdown in the North Atlantic heat conveyor system are too small to explain the Younger Dryas.

1. The author of the passage implies which of the following about the release of water from glacial Lake Agassiz?
  - A. The notion that the release occurred has been challenged by more recent findings.
  - B. The release probably occurred much earlier than scientists have generally assumed.
  - C. The release would not have been sufficient to cause any temperature change in the North Atlantic.
  - D. The timing of the release is such that it probably did not trigger the onset of the Younger Dryas.
  - E. The release was probably unrelated to the global warming trend that was taking place.
2. The passage is primarily concerned with
  - A. presenting evidence that undermines an explanation
  - B. explaining the nature of a climatological phenomenon
  - C. questioning the timing of a particular event
  - D. discussing a new explanation for a phenomenon
  - E. suggesting revisions to a popular theory

#### Passage 42

Animals live longer when their calorie intake is restricted to two-thirds of what is considered normal for their species. Animals so restricted are also generally healthier: most disease, including cancer, diabetes, and neurodegenerative illness, are forestalled. <sup>Q2</sup>**This phenomenon was long attributed to a simple slowing of metabolism** (cells' production of energy from fuel molecules) and consequent reproduction of its toxic by-products in response to less food. In fact, however, calorie restriction does not slow mammalian metabolism, and <sup>Q1</sup>**in yeast and worms, metabolism is both sped up and altered.** Some scientists now theorize that calorie restriction is a biological stressor that, like natural food scarcity, induces a more complex defensive response, which in mammals includes changes in cellular defenses and repair.

1. In the passage, the function of the highlighted portion is to
  - A. Provide specific examples of organisms whose longevity does not increase in response to calorie restriction.
  - B. Illustrate the probable means by which organisms placed on a calorie-restriction diet compensate for the reduction in available food-based level.
  - C. Suggest the mechanism that is responsible for prolonging the life of organism whose calorie intake is significantly reduced.
  - D. Give an example that explain why scientists' thinking about the physiological effects of calorie restriction changed.

E. Distinguish the different ways that mammalian and non-mammalian metabolisms respond to significant reductions in calorie intake

For the following question, consider each of the choices separately and select all that apply.

2. The passage implies which of the following about the explanation mentioned in the highlighted text?

- A. There are empirical findings that conflict with a presumption of the explanation.
- B. The explanation predicts that the effect of calorie restriction on longevity will be the greatest for the species with the highest rate of metabolism.
- C. The explanation predicts that the effects of calorie restriction will be uniformly positive.

### Passage 43

The “deindustrialization” thesis of Bluestone and Harrison asserts that the replacement of domestic with foreign manufacturing begun by United States corporations in the late 1960s resulted in a “hollowing out” of American industry, whereby workers displaced from manufacturing jobs through massive plant closings found themselves moving more or less permanently into lower-paying, less secure jobs or into unemployment. Critics of the deindustrialization thesis have argued that new service and high-technology sectors of the United States economy have recently created a substantial number of jobs. While these critics do not deny the painful aspects of this transition from an industrial to a service- and information-based economy, they argue that it will be short-term, and a necessary evil if the United States is to have long-term increases in living standards. **Critics** of the emerging economy, however, point to disturbing evidence of an “hourglass” effect: a shrinking middle tier of managerial and blue-collar unionized workers and consequent polarization of incomes. The emergence of a technical and financial elite, they argue, has brought forth a host of low-wage jobs to service the new economy, and it is this service sector that many ex-industrial workers must seek.

1. The purpose of the passage is to
  - A. analyze the events that contributed to an economic phenomenon
  - B. present different views on the nature and impact of an economic phenomenon
  - C. distinguish between the short-term and long-term effects of an economic phenomenon
  - D. challenge a dominant theory about how to solve the problems created by an economic phenomenon
  - E. present new evidence to suggest that an economic phenomenon is more complex than had previously been believed
  
2. Which of the following, if true, would most tend to weaken the deindustrialization thesis of Bluestone and Harrison?
  - A. a survey of the spouses of former industrial workers reveals a significant increase in the number of working spouses since the mid-1960s.



- B. data from the most recent United States census show that fewer individuals list their occupation as industrial worker than in the census from ten years earlier.
- C. a random survey of United States consumers indicates that a majority of those surveyed would prefer to buy United States-manufacturing goods if given the opportunity.
- D. A recent study indicates that large numbers of former industrial workers have retrained and found employment as skilled, highly-paid computer workers.
- E. Interviews with representatives at major agencies for temporary employment in the United States suggest that they value the skills of former industrial workers.
3. It can be inferred from the passage that the highlighted “critics” believe which of the following about “hourglass” effect?
- A. It involves the relegation of industrial workers to less desirable jobs.
- B. It requires that workers make short-term sacrifices to achieve long-term gains.
- C. It affects non-unionized workers more strongly than it does unionized workers.
- D. It represents an increase in unemployment for those in the service sector.
- E. It threatens the status of the technological and financial elite.

#### Passage 44

Some historians have recently challenged the “party period paradigm,” the view, advanced by McCormick and others, that political parties—especially the two major parties—in the United States between the years 1835 and 1900 evoked extraordinary loyalty from voters and dominated political life. Voss-Hubbard cites the frequency of third-party eruptions during the period as evidence of popular antipathy to the two-party regime. He correctly credits third parties with helping generate the nineteenth-century’s historically high rates of voter turnout by forcing major parties to bolster supporters’ allegiance, lest minor parties siphon off their votes, and with pushing policy demands that the major parties ignored. Formisano stresses the pervasive record of nonpartisan and antiparty governance at the local level, and women’s frequent participation in nineteenth-century public life, prior to their enfranchisement, in nonpartisan and antiparty ways as evidence of the limitations of the party period paradigm. Yet McCormick would deny that the existence of antiparty sentiment during the period undermines the paradigm, since he has always acknowledged the residual strength of such sentiment during the nineteenth century. In any case, the strength of the paradigm is its comparative thrust: the contrast it draws between the period in question and later political eras.

1. The primary purpose of the passage is to
- A. correct a common misconception about a historical period.
- B. identify a feature of a historical period that has often been overlooked.
- C. challenge the validity of evidence used to support a claim.
- D. discuss certain challenges to a particular view.
- E. account for a particular feature of a historical period.

2. Select the sentence in the passage that describes how a historian might reply to attempts to call his theory into question.
3. In the context in which it appears, “evoked” most nearly means
- A. elicited
  - B. recalled
  - C. cited
  - D. suggested
  - E. elaborated

**Passage 45**

Some historians question the widely held belief that continually improving education led to gradual African American empowerment in the southern United States from the late nineteenth century through the mid-twentieth century. They note that the development of Black educational institutions in the segregated South was never rapid or steady: disparities between Black and White schools sometimes grew in the early decades of the twentieth century. And African Americans’ educational gains did not bring commensurate economic gains. Starting in the 1940s, even as Black and White schools in the South moved steadily toward equality, Black southerners remained politically marginalized and experienced systematic job discrimination. Although Black schools had achieved near parity with White schools in per capita spending and teachers’ salaries by 1965, African Americans’ income still lagged behind that of Whites. **Nonetheless, educational progress did contribute toward economic and political empowerment.** African Americans’ campaigns to support Black schools fostered a sense of community, nurtured political determination, and often increased literacy. More significantly, politically outspoken Black newspapers achieved record circulation during the 1940s, just as the literacy rate among African Americans approached 90 percent. Finally, the leadership of the Civil Rights movement of the 1960s was composed largely of graduates of Black colleges.

1. The author of the passage refers to the fact that “disparities between Black and White schools sometimes grew in the early decades of the twentieth century” most likely in order to
- A. support the argument that the economic struggles of southern Blacks were largely due to educational inequalities
  - B. give an example of the differences between Black schools in the early part of the twentieth century and Black schools starting in the 1940s
  - C. illustrate the unevenness of the progress made by Black schools in the southern United States
  - D. help explain why Black remained politically marginalized and experienced systematic job discrimination in the segregated South
  - E. provide evidence that educational progress was a precondition for economic progress in the segregated South
2. Which of the following best describes the purpose of the highlighted sentence?
- A. It clarifies a point introduced in the preceding sentence.
  - B. It reiterates a point introduced in the first sentence of the passage.

- C. It questions the accuracy of some of the evidence used to support the argument of the historians.
- D. It introduces a perspective that runs contrary to the view of those who endorse the “belief.”
- E. It qualifies the interpretation made by the historians.

3. The passage suggests which of the following about the Civil Rights movement?

- A. It gave rise to a rapid increase in the number of Black newspapers published in the South.
- B. Its political effectiveness was greatly enhanced by the increased circulation of Black newspapers.
- C. Its leadership benefited from improvements in education for African Americans.
- D. It was the force primarily responsible for increasing per capita spending in Black schools.
- E. It was responsible for changing many historians’ view of the relation between education and African American empowerment.

#### Passage 46

Scientific consensus is that humans first began to have a warming effect on Earth’s climate within the past century, after coal-burning factories, power plants, and motor vehicles began releasing carbon dioxide (CO<sub>2</sub>) and other greenhouse gases in significant quantities into the air. **However, evidence suggests that human agricultural activities may have had such an effect much earlier: concentrations of CO<sub>2</sub> started rising about 8000 years ago, even though natural trends indicate they should have been dropping; methane levels rose similarly about 3,000 years later.** Without these rises, however, current temperatures in northern parts of North America and Europe would be cooler by three to four degrees Celsius—enough to inhibit agriculture—and an ice age would probably have begun several thousand years ago in northeastern Canada.

1. Which of the following best describes the function of the highlighted sentence?
  - A. It undermines the assumption that human activity has had a significant impact on Earth’s climate
  - B. It supports the assumption that Earth’s temperatures have risen appreciably over the past 100 years
  - C. It questions the assumption that greenhouse gases have had a warming effect on Earth’s climate
  - D. It challenges the assumption that human activity began to affect Earth’s climate after the advent of industrialization
  - E. It supports the assumption that greenhouse gases are a direct by-product of industrial activities
2. The author mentions “natural trends” most likely in order to
  - A. propose a possible explanation for why current temperatures in North America and Europe are not as low as they might otherwise be
  - B. explain why levels of methane in Earth’s atmosphere began to rise approximately 5,000 years ago

- C. suggest that Earth's climate would have become even warmer without the advent of human agricultural activities
- D. identify factors that may have contributed to the rise of greenhouse gases in Earth's atmosphere approximately 8,000 years ago and again some 3,000 years later
- E. support the claim that human activity may have played a role in the rise in CO<sub>2</sub> and methane levels in the atmosphere thousands of years ago

**Passage 47**

An influential early view held that ecosystems contain niches for a limited number of species and that competition for resources among species—whether native or nonnative invading ones—determines ecosystems' species composition. However, factors other than competition often help explain invading species' success. For example, the American grey squirrel, often cited as a classic example of competitively superior invading species, was introduced in England in 1876 and now thrives, while the native red squirrel population has declined. Although scientists have found gray squirrels to be more efficient foragers than red ones, they also note that even before the gray squirrel's arrival, Britain's red squirrel populations had a periodic tendency to die out, only to be subsequently reintroduced. Furthermore, many gray squirrels are silent carriers of a disease fatal to red squirrels.

1. It can be inferred that the author of the passage mentions the efficiency with which gray squirrels forage primarily in order to
  - A. identify a factor that explains a certain phenomenon
  - B. call attention to an inconsistency in a particular theory
  - C. suggest that competition cannot be the factor responsible for a particular outcome
  - D. acknowledge a fact that appears to support a view that the author intends to qualify
  - E. cite evidence that is not consistent with an early influential view about species competition
2. It can be inferred that the author of the passage would be most likely to agree with which of the following statements about the "early view?"
  - A. It reflects a mistaken assumption about the means by which nonnative species are introduced into ecosystems.
  - B. Its basic premise is shown to be valid by the effect of American gray squirrels on Britain's red squirrel population.
  - C. It presents a simplistic picture of the means by which species composition within ecosystems is determined.
  - D. It can effectively explain the formation of ecosystems that contain few species but cannot adequately account for the formation of complex ecosystems.
  - E. It understates the importance of competition as a factor determining species composition within ecosystems.

**Passage 48**

Historian Colin Calloway argues that in the late colonial period preceding the American Revolution (1775-1783), the British government sought to seal off territory west of the Appalachian Mountains from the encroachment of land-hungry White settlers, to negotiate with Native American peoples as independent foreign states, and to guarantee the integrity of traditional Native American hunting grounds. By contrast, White Americans, released by the outbreak of the Revolution from the constraints of Britain's allegedly benevolent policies, are portrayed by Calloway as ruthless land-grabbers whose new national government endorsed their rapacity. Bernard Bailyn argues, however, that the "Americans" who encroached on Native American land during the Revolution had been British only a few years before. When, during and after the Revolution, White Americans seized Native American land by any available means, they were continuing a tradition dating back to the earliest years of English settlement in North America. And, according to Bailyn, the British government's prewar efforts to preserve the trans-Appalachian west for Native Americans resulted not from humanitarian virtue or ethnic tolerance but from British merchants' desire to maintain their lucrative trade with Native Americans and the government's desire to control immigration and avoid costly conflict between Whites and Native Americans over land.

1. The primary purpose of the passage is to
  - A. suggest that two different arguments about a particular historical period are both questionable
  - B. present historical evidence that undermines a widely accepted viewpoint
  - C. defend a revisionist historian's thesis against traditionalist criticism
  - D. outline opposing interpretations of a particular historical phenomenon
  - E. resolve a dispute among historians over a controversial historical episode
2. The reference to "the earliest years of English settlement in North America" serves primarily to emphasize the point that
  - A. Calloway has exaggerated the ruthlessness and rapacity of White settlers in their relations with Native Americans prior to the American Revolution
  - B. seizure of Native American lands by White settlers had increased dramatically throughout the time of British colonial rule
  - C. at one time White settlers had negotiated with Native American peoples as independent foreign states
  - D. White settlers had no legitimate grounds for claiming title to land they seized west of the Appalachian Mountains
  - E. aggression by White settlers against Native Americans during and after the American Revolution was not a new phenomenon
3. It can be inferred that both Bailyn and Calloway would probably agree with which of the following assertions regarding the relations between White Americans and Native Americans concerning the trans-Appalachian West
  - A. The American Revolution unleashed an unprecedented wave of expropriation of Native American land by White settlers.



- B. The British government's prewar policy towards the Native Americans was determined largely by the interests of British merchants who traded with the Native Americans.
- C. The British government tried to keep White settlers out of the trans-Appalachian west primarily in order to prevent disputes over land between those settlers and Native Americans.
- D. The new national government created by the American Revolution had less incentive than did the British colonial government to negotiate with Native American peoples as independent foreign states.
- E. One objective of the British government's land policy prior to the American Revolution was to prevent White settlers from moving to the western side of the Appalachian Mountains.

#### Passage 49

Because the subject matter was so personal, the work of several prominent mid-twentieth century poets has been termed “confessional” poetry. But confession is a bad metaphor for what those poets did. The motive for confession is penitential or therapeutic—by speaking openly about personal guilt and suffering, the poet hopes to make them easier to bear. But these poets always approached their writing as artists, and their motive was aesthetic. Writing from experiences like madness, despair, and lust, their aim was to make effective art, not to cure themselves. To treat their poems mainly as documents of personal experience is not to diminish the poets' achievement, but to ignore their unanimous disdain for the idea of confessional poetry.

For the following question, consider each of the choices separately and select all that apply.

1. The author of the passage suggests that applying the term “confessional” to the work of the poets discussed
  - A. is mistaken in what it seems to imply about the poets' motivation
  - B. might seem superficially appropriate given the subject matter of the poems
  - C. is an error arising from the absence of any other convenient term

For the following question, consider each of the choices separately and select all that apply.

2. The passage implies that the poets discussed did NOT
  - A. Think that a poet's motivation for writing was relevant in evaluating that poet's work
  - B. Experience any relief of their personal suffering as a result of writing
  - C. Apply to their own work the label by which it has subsequently been known

#### Passage 50

From 1880s to the 1930s, the textile industry in Japan employed over half of all workers, most of them in the three major branches of silk reeling, cotton spinning, and weaving. Because the branches were highly diverse—in scale, skill requirements, and technology—historians traditionally have analyzed them separately. However, the workforces of all three were drawn primarily from the same population: young, mostly rural women aged 10 to 25. Noting this

commonality, Hunter argues that a consideration of the three branches of production together is long overdue: examining elements common to the different branches of textile production may, she asserts, permit the identification of gender-based factors that may have influenced the operation of the Japanese female labor market as a whole.

1. Which of the following does the passage cite as an explanation for historians' traditional analysis of the Japanese textile industry?

- A. A common workforce population across all branches of textile manufacturing
- B. Similarities in the skills required for silk reeling, cotton spinning, and weaving
- C. The importance of the textile industry to the Japanese economy as a whole.
- D. The high number of female factory workers employed within the textile industry
- E. Differences in the technology used in the three major branches of textile production

Consider each of the choices separately and select all that apply

2. It can be inferred that Hunter regards which of the following to be a shortcoming of historians' traditional analyses discussed in the passage?

- A. Their failure to examine factors common to the three different branches of Japanese textile production
- B. Their separation of the Japanese textile industry into three major branches based on differences in scale, skill requirements, and technology
- C. Their failure to acknowledge the contribution made by rural women to the different branches of the textile industry

#### Passage 51

Buell's study of village sketches (a type of fiction popular in the United States in the 1830s and 1840s) provides a valuable summary of sketches that portray the community as homogenous and fixed, but it ignores those by women writers, which typically depicted the diversity that increasingly characterized actual village communities at that time. These women's geographical mobility was restricted (although women writers of the time were not uniformly circumscribed in this way), and their subject matter reflected this fact. Yet their texts were enriched by what Gilligan, writing in a different context, has called the ability to attend to voices other than one's own. To varying degrees, the women's sketches portray differences among community members: all stress differences among men and among women (particularly the latter) as well as differences between the sexes, and some also depict cultural diversity. These writers represent community as dynamic, as something must be negotiated and renegotiated because of its members' divergent histories, positions, expectations, and beliefs.

For the following question, consider each of the choices separately and select all that apply.

1. According to the passage, village sketches written by women in the United States in the 1830s and 1840s typically reflected

- A. The negotiations that characterized trade relationships between villages

- B. The fact that these women did not often travel very far beyond their own village
  - C. The plurality of experiences and ideas that existed among the residents of a village
2. Select the sentence in the passage that contrasts how men and women depict life in village communities.
3. The passage indicates that when Gilligan spoke of “the ability to attend to voices other than one’s own,” she
- A. did not consider that ability to be a desirable psychological characteristic
  - B. did not believe that individuals differ greatly with respect to that ability
  - C. was implying that that ability enhances a sense of belonging in communities
  - D. was assuming that good writers are able to depict diverse characters
  - E. was not discussing the women who wrote village sketches

### Passage 52

The relevance of the literary personality—a writer’s distinctive attitudes, concerns, and artistic choices—to the analysis of a literary work is being scrutinized by various schools of contemporary criticism. Deconstructionists view the literary personality, like the writer’s bibliographical personality, as irrelevant. The proper focus of literary analysis, they argue, is a work’s intertextuality (interrelationship with other texts), subtexts (unspoken, concealed, or repressed discourses), and metatexts (self-referential aspects), not a perception of a writer’s verbal and aesthetic “fingerprints”. New historicist also devalue the literary personality, since, in their emphasis on a work’s historical context, they **credit a writer with** only those insights and ideas that were generally available when the writer lived. However, to readers interested in literary detective work—say scholars of classical (Greek and Roman) literature who wish to reconstruct damaged texts or deduce a work’s authorship—the literary personality sometimes provides vital clues.

1. The passage is primarily concerned with
- A. discussing attitudes toward a particular focus for literary analysis.
  - B. describing the limitations of two contemporary approaches to literary analysis
  - C. pointing out the similarities among seemingly contrasting approaches to literary analysis.
  - D. defending the resurgence of a particular focus for literary analysis.
  - E. defining a set of related terms employed in literary criticism.

Consider each of the following choice separately and select all that apply.

2. It can be inferred from the from the passage that on the issue of how to analyze a literary work, the new historicists would most likely agree with the deconstructionists that

- A. the writer's insights and ideas should be understood in terms of the writer's historical context.
- B. the writer's literary personality has little or no relevance
- C. the critic should primarily focus on intertextuality, subtexts, and metatexts.

3. In the context in which it appears, “**credit a writer with**” most nearly means

- A. trust a writer with
- B. applaud a writer for
- C. believe a writer created
- D. presume a writer had
- E. accept a writer for

### Passage 53

In *The Life of Charlotte Bronte* (1857), the first and most celebrated biography of novelist Charlotte Bronte, Elizabeth Gaskell promoted the long-persisting romantic view of Bronte as having no connection with the rest of English society at a time when industrialization was causing much turbulence, but as having sprung naturally, like so much purple heather, out of the English countryside. Gaskell also portrayed Bronte as irreproachably proper, incapable of “unladylike” feelings or dangerous views; this was at variance with the subversive spirit Matthew Arnold accurately discerned, albeit with distance, deep within Bronte's fiction. While correcting many of Gaskell's errors and omissions at last, even Winifred Gerin's *Charlotte Bronte: The Evolution of Genius* (1967) failed to discard Gaskell's viewpoint. Feminists have introduced new interpretations of Bronte's life, but it is primarily Juliet Barker who takes into account the larger world that impinged on that life—the changing England in which old divisions of class and gender were under pressure.

1. The primary purpose of the passage is to
  - A. Consider similarities in several studies of Charlotte Bronte's life
  - B. Defend a particular view of Charlotte Bronte's life
  - C. Discuss a change in perspective on Charlotte Bronte's life
  - D. Depict the social environment in which Charlotte Bronte lived
  - E. Portray Charlotte Bronte as an early feminist writer
2. The passage suggest that Matthew Arnold disapproved of Charlotte Bronte's fiction insofar as he believed that it
  - A. Overly romanticized the English countryside
  - B. Contained dangerous ideas buried within it
  - C. Perpetuated outmoded social distinctions
  - D. Failed to represent industrialized society realistically
  - E. Reflected an excessive concern with propriety

3. The passage suggests that Gaskell's biography of Charlotte Bronte advanced the idea that Bronte was
- A. One of the most celebrated of the romantic novelists
  - B. An outspoken advocate of social change
  - C. Opposed to the industrialization of England
  - D. Strongly influenced by the social upheaval of the times
  - E. Chiefly the product of a rustic environment.

#### Passage 54

Late-eighteenth-century English cultural authorities seemingly concurred that women readers should favor history, seen as edifying, than fiction, which was regarded as frivolous and reductive. **Readers of Marry Ann Hanway's novel *Andrew Stewart, or the Northern Wanderer*, learning that its heroine delights in David Hume's and Edward Gibbon's histories, could conclude that she was more virtuous and intelligent than her sister, who disdains such reading.** Likewise, while the naïve, novel-addicted protagonist of Jane Austen's *Northanger Abbey*, Catherine Morland, finds history a chore, the sophisticated, sensible character Eleanor Tilney enjoys it more than she does the Gothic fiction Catherine prefers. Yet in both cases, the praise of history is more double-edged than it might actually appear. Many readers have detected a protofeminist critique of history in Catherine's protest that she dislikes reading books filled with men "and hardly any women at all." Hanway, meanwhile, brings a controversial political edge to her heroine's reading, listing the era's two most famous religious skeptics among her preferred authors. While Hume's history was generally seen as being less objectionable than his philosophy, there were **widespread doubts** about his moral soundness even as a historian by the time that Hanway was writing, and Gibbon's perceived tendency to celebrate classical paganism sparked controversy from the first appearance of his history of Rome.

1. The author's primary purpose is that
  - A. the evidence used in support of a particular argument is questionable
  - B. a distinction between two genres of writing has been overlooked
  - C. a particular issue is more complex than it might appear
  - D. two apparently different works share common features
  - E. two eighteenth-century authors held significantly different attitudes toward a particular
2. According to the passage, which of the following is true of Hume's reputation in the late eighteenth century?
  - A. He was more regarded as a historian than Gibbon
  - B. His historical writing, like his philosophical writing, came to be regarded as problematic
  - C. He was more well-known for his historical writing than for his philosophical writing
  - D. His historic writing came to be regarded as morally questionable because of his association with Gibbon
  - E. His views about classical paganism brought him disapproval among the general reading public



3. The highlighted sentence exemplifies which of the following?
- A. Cultural authorities' attempt to use novels to support their view about the value of reading fiction
  - B. Eighteenth-century women authors' attempts to embody in their work certain cultural authorities' views about reading
  - C. A point about the educational value of reading books about history
  - D. An instance in which a particular judgment about the value of reading history is apparently presupposed
  - E. A challenge to an assumption about eighteenth-century women's reading habits
4. The author mentions the "widespread doubts" in order to
- A. support a point about the scholarly merit of Hume's writings
  - B. contrast Hume's philosophical writing with his writing on historical subjects
  - C. suggest that Hanway did not understand the implicit controversy depicting her heroine as reading Hume
  - D. identify an ambiguity in Hanway's depiction of the philosopher in *The Northern Wanderer*
  - E. illustrate a point about a way eighteenth-century fiction sometimes represented historians

#### Passage 55

The manuscripts of the eight extant Latin tragedies identify the plays as the *Marci Lucii Annei Senecae Tragoediae*. Since nobody of that name is known, modern scholars believe the dramas to be the work of Lucius Annaeus Seneca the Younger, the well-known philosopher, orator, and politician. Clearly, the tragedies were written during Seneca's lifetime: internal references to earlier poets, most notably Ovid, indicate that the dramas cannot have been composed prior to the second decade C.E., and the plays must have been written by 96 C.C., when Quintilian quotes Medea, one of the tragedies.

It is remarkable, however, that Seneca himself never mentions the plays, since there are certainly passages in them that could be used to illustrate points of his philosophy. There are at least two possible explanations. In the early Roman Empire, playwrights were sometimes exiled or executed for lines construed as directed against the emperor; thus, Seneca's silence may be simple prudence. But if anyone could safely attach his name to dramas, surely it would be Seneca, the emperor's tutor. And although Herrmann offers Seneca's modesty as an explanation, Seneca is not averse to referring to his other writings. The evidence for equating Seneca with the author of the tragedies seems circumstantial.

1. The author mentions Medea primarily in order to
- A. Given an example of a play in which references to certain authors can be used to determine when the *Marci Lucii Annei Senecae Tragoediae* were composed.
  - B. Acknowledge the possibility that the *Marci Lucii Annei Senecae Tragoediae* may have been written by Quintilian rather than Seneca.
  - C. Suggest that certain of the *Marci Lucii Annei Senecae Tragoediae* may have been written near the end of Seneca's lifetime.

D. Argue that Marci may have been one of the last of the eight plays in the *Marci Lucii Annei Senecae Tragoediae* to be written.

E. Indicate how the latest possible date for the time period during which the *Marci Lucii Annei Senecae Tragoediae* were composed might be established.

2. The author of the passage makes which of the following claims about the eight extant Latin tragedies?

A. There is only circumstantial evidence that the plays were all written by the same author.

B. Scholars have persistently attributed the plays to Seneca despite evidence that some of them may have been composed prior to his lifetime.

C. Evidence in the manuscripts of the plays identifies them as having been written by Lucius Annaeus Seneca the Younger.

D. The plays contain some lines that have been construed as being directed against the emperor.

E. The plays contain material that could illustrate certain aspects of Seneca's philosophy.

3. The author of the passage would most likely agree that if Seneca had in fact written the tragedies, then Seneca probably would have

A. Used the plays as platforms for his philosophical ideas.

B. Referred to the plays in some of his other writings.

C. Been in danger of exile or execution for certain lines in the plays.

D. Avoided attaching his name to the plays out of modesty.

E. Written the plays during the latter portion of his lifetime.

#### Passage 56

**Recent studies** of the Philippine fruit bat fauna have confirmed some previous hypotheses regarding bats on oceanic islands: for example, species richness (the number of different species in a particular area) and abundance are generally highest in the lowlands and decrease with increasing elevation. **With few exceptions, each endemic species (species native to a particular place) is restricted to the modern islands that made up a single island during periods of low sea level, and genetic differentiation has been influenced by the ecology of the species and the current and past geographic and geological conditions.** However, far more previous hypotheses have been overturned than supported. Some endemic Philippine species use disturbed habitat as extensively as nonendemic species that are widespread in Southeast Asia. Levels of genetic variation within all species are high, not low, and rather than showing evidence of an intrinsic vulnerability to extinction from natural causes, independent lineages of these bats have persisted in rather small areas for very long periods of time (often millions of years) in spite of frequent typhoons and volcanic eruptions. While colonization from outside areas has clearly contributed to the high species richness, speciation within the archipelago has contributed at least a quarter of the total species richness, including many of the most abundant species.

1. The primary purpose of the passage is to

- A. Draw on studies of the Philippine fruit bat in proposing a new theory regarding bats on oceanic islands
  - B. Show how recent research on the Philippine fruit bat reflects debates about bats on oceanic islands.
  - C. Argue for the relevance of certain new evidence pertaining to the Philippine fruit bat for the study of bats on oceanic islands
  - D. Discuss recent investigations of the Philippines fruit bat in light of conventional wisdom regarding bats on oceanic islands
  - E. Explain why the Philippine fruit bat is atypical among bats on oceanic islands in terms of genetic variation
2. The primary function of the highlighted text is to
- A. Identify a finding from the Philippine fruit bat studies that will have a significant impact on how oceanic bats generally are viewed
  - B. Point out a hypothesis that has been the subject of considerable disagreement among researchers studying oceanic bats
  - C. Present evidence that is difficult to reconcile with other recent findings regarding the Philippine fruit bat
  - D. Illustrate a widely held view about oceanic bats generally that was confirmed by the Philippine fruit bat studies
  - E. Identify a feature of the Philippine fruit bat that does not appear to apply to oceanic bats generally
3. Which of the following can be inferred from the passage about the “recent studies”?
- A. They point to the need for a significantly revised perspective on oceanic island bats generally.
  - B. They were undertaken with the assumption that Philippine fruit bats were somewhat atypical among oceanic bats.
  - C. They remain somewhat controversial among researchers because of the number of standard hypotheses that they tested.
  - D. They have largely confirmed what scientists thought about the Philippine fruit bat.
  - E. They suggest that bats on oceanic islands are more vulnerable to extinction than previously thought.

### Passage 57

Recent studies of ancient Maya water management have found that the urban architecture of some cities was used to divert rainfall runoff into gravity-fed systems of interconnected reservoirs. In the central and southern Maya Lowlands, this kind of water control was necessary to support large populations throughout the year due to the scarcity of perennial surface water and the seasonal availability of rainfall. Some scholars argue that the concentration of water within the urban core of these sites provided a centralized source of political authority for Maya elites based largely on controlled water access. Such an argument

is plausible; however, it is less useful for understanding the sociopolitical implications of water use and control in other, water-rich parts of the Maya region.

1. The author of the passage implies which of the following about the political importance of the type of urban water management system described in the passage?
  - A. Because the system was centralized, it allowed political control over a widely scattered population
  - B. The knowledge required to design and maintain the system became the pretext for Maya elites' political authority
  - C. By selectively limiting access to water, Maya elites used the system to curb challenges to their authority
  - D. The system is not sufficient to explain the sources of centralized political power in all parts of the Maya region
  - E. The system's continued maintenance required political authorities to exert control over an increasing proportion of economic resources.

For the following question, consider each of the choices separately and select all that apply.

2. According to the passage, which of the following is true of the water management systems in the central and southern Maya Lowlands?
  - A. They were implemented in part because of the prevailing pattern of rainfall.
  - B. They were an integral part of lowland cities' architecture
  - C. They were needed because of insufficient resources such as ponds, rivers, and lakes in the lowlands.

#### Passage 58

Much recent work has examined the claim that women encounter increasing obstacles relative to men as they move up the organizational ladder in business. This **proposition**, which we term the increasing-disadvantage model, is a core element of the popular glass ceiling metaphor. Despite continued widespread public acceptance of the glass ceiling idea and some consistent findings, most research to date has failed to support the increasing-disadvantage model. Indeed, several studies based on private-sector firms find that women's mobility prospects improve, rather than decline, as they climb upward in corporate hierarchies. In the public sector, researchers have found either no sex differences in mobility or a larger female disadvantage in lower grades.

Comparing cross-sectional national samples of workers, Baxter and Wright found no evidence in the United States, and only limited evidence in Sweden and Australia, that women's probability of being located in a higher versus a lower hierarchical level declined relative to men's at higher levels. Taken together, these findings suggest that the glass ceiling may be a myth. Women's scarcity in top organizational ranks may simply represent the cumulative effect of a constant-or even decreasing-disadvantage at successive hierarchical levels.

1. The primary purpose of the passage is to
  - A. compare two explanations for a recurring problem
  - B. summarize evidence relevant to a hypothesis
  - C. point out inconsistencies in a set of findings
  - D. account for the persistence of a point of view
  - E. reconsider the origins an ongoing issue
2. Based on the passage, which of the following is true of the “limited evidence” from Sweden and Australia?
  - A. It lends support to the increasing-disadvantage model
  - B. It correlates with findings on women’s mobility from most other countries.
  - C. It suggests important cultural similarities between these countries.
  - D. It points to a phenomenon not widely recognized in these countries.
  - E. It helps explain the persistence of the glass ceiling
3. The author of the passage and those accepting the “proposition” would most likely agree with which of the following?
  - A. Lower down on the organizational ladder, women tend to experience fewer disadvantages than they do at higher levels
  - B. Women experience no more disadvantages in moving up the organizational ladder than do men
  - C. The degree of disadvantage experienced by women remains constant as women move up the organizational ladder
  - D. The obstacles to women’s advancement vary significantly from country to country
  - E. Women face some disadvantage at each stage of the organizational ladder

### Passage 59

In various writings from the 1940s on popular culture, George Orwell examined commercial texts such as comics and crime novels, seeking out political meanings that ran counter to what he considered an inherent tendency toward socialism in the English common people. The public, he concluded, was often being duped by a covert patrician conservatism, conveyed through commercial culture, that restrained the people’s radical instincts. These works constituted some of Orwell’s greatest writing, yet those who see him as a lone precursor to today’s cultural studies, a field in which scholars examine the ideological implications of popular culture, are mistaken. A number of left-wing writers in the 1930s, many of them associated with the Communist Party, saw the need to take popular culture seriously.

1. The passage suggests which of the following about George Orwell?
  - A. He regarded commercial texts as vehicles for the views of ordinary people.
  - B. He regarded many commercial texts as having an insidious effect on readers.
  - C. He considered commercial texts such as comics to be unworthy of serious analysis.
  - D. He initiated a new direction in scholarship by taking popular culture seriously.



E. He regarded commercial texts as inappropriate vehicles for political ideas.

### Passage 60

Since the 1970s, archaeological sites in China's Yangtze River region have yielded evidence of sophisticated rice-farming societies that predate signs of rice cultivation elsewhere in East Asia by a thousand years. Before this evidence was discovered, it had generally been assumed that rice farming began farther to the south. This scenario was based both on the geographic range of wild or free-living rice, which was not thought to extend as far north as the Yangtze, and on archaeological records of very early domestic rice from Southeast Asia and India (now known to be not so old as first reported). Proponents of the southern-origin theory point out that early rice-farming societies along the Yangtze were already highly developed and that evidence for the first stage of rice cultivation is missing. They argue that the first hunter-gatherers to develop rice agriculture must have done so in this southern zone, within the apparent present-day geographic range of wild rice.

Yet while most strands of wild rice reported in a 1984 survey were concentrated to the south of the Yangtze drainage, two northern outlier populations were also discovered in provinces along the middle and lower Yangtze, evidence that the Yangtze wetlands may fall within both the present-day and the historical geographic ranges of rice's wild ancestor.

1. Which of the following, if true, would most clearly undermine the conclusion that the author makes based on the 1984 survey?
  - A. Areas south of the Yangtze basin currently have less wild-rice habitat than they once did.
  - B. Surveys since 1984 have shown wild rice populations along the upper Yangtze as well as along the middle and lower Yangtze.
  - C. The populations of wild rice along the Yangtze represent strains of wild rice that migrated to the north relatively recently.
  - D. Early rice-farming societies along the Yangtze were not as highly developed as archaeologists once thought.
  - E. In East Asia, the historical geographic range of wild rice was more extensive than the present-day geographic range is.
2. Based on the passage, skeptics of the idea that rice cultivation began in the Yangtze River region pointed to which of the following for support?
  - A. Lack of evidence supporting the existence of rice-farming societies along the Yangtze at an early date
  - B. Lack of evidence regarding the initial stages of rice cultivation in the Yangtze region
  - C. Recent discoveries pertaining to the historical geographic range of rice's wild ancestor
  - D. New information regarding the dates of very early domestic rice from Southeast Asia
  - E. New theories pertaining to how hunter-gatherers first developed rice agriculture in East Asia
3. Which of the following can be inferred from the passage about the "southern-origin theory?"

- A. The theory is based on an unconventional understanding of how hunter-gatherers first developed rice agriculture.
- B. The theory fails to take into account the apparent fact that evidence for the first stage of rice cultivation in the north is missing.
- C. The theory was developed primarily in response to a 1984 survey of wild rice's geographic range.
- D. Reassessment of the dates of some archaeological evidence has undermined support for the theory.
- E. Evidence of sophisticated rice-farming societies in the Yangtze region provides support for the theory.

### Passage 61

The disappearance of Steller's sea cow from the Bering and Copper islands by 1768 has long been blamed on intensive hunting. But its disappearance took only 28 years from the time Steller first described the species, a remarkably short time for hunting alone to depopulate the islands, especially given the large populations initially reported. However, by 1750, hunters had also targeted nearby sea otter populations. Fewer otters would have allowed sea urchin populations on which the otters preyed to expand and the urchins' grazing pressure on kelp forests to increase. Sea cows were totally dependent on kelp for food, and within a decade of the onset of otter hunting Steller noted that the islands' sea cows appeared malnourished.

1. Which of the following can be inferred from the passage about kelp forests in the Bering and Copper islands between 1750 and 1768?
  - A. They were reduced significantly.
  - B. They disappeared entirely from the region.
  - C. They were the primary food source for sea otters.
  - D. They were harvested in record numbers by humans.
  - E. They increased pressure on sea urchin populations.
2. According to the passage, it is likely that during the mid-1700s, sea urchin populations near the Bering and Copper islands
  - A. were diminished by sea cow predation
  - B. experienced substantial increases
  - C. migrated to waters with more plentiful food supplies
  - D. were reduced by the pressures of hunting
  - E. appeared to be malnourished

### Passage 62

The revival of mural painting that has occurred in San Francisco since the 1970s, especially among the Chicano population of the city's Mission District, has marked differences from its social realist forerunner in Mexico and the United States some 40 years earlier. Rather than

being government sponsored and limited to murals on government buildings, the contemporary mural movement sprang from the people themselves, with murals appearing on community buildings and throughout college campuses. Perhaps the biggest difference, however, is the process. In earlier twentieth-century Mexico, murals resulted from the vision of individual artists. But today's murals are characteristically the products of artists working with local residents on design and creation.

Such community engagement is characteristic of the Chicano art movement as a whole, which evolved from the same foundations as the Chicano civil rights movement of the mid-1960s. Both were a direct response to the needs of Chicanos in the United States, who were fighting for the right to adequate education, political empowerment, and decent working conditions. Artists joined other cultural workers in making political statements and played a key role in taking these statements to the public. They developed collectives and established **cultural centers** that functioned as the public-relations arm of the Chicano sociopolitical movement.

1. The primary purpose of the passage is to
  - A. argue for the superiority of a style of art
  - B. consider the impact of an art movement
  - C. describe the political content of a certain works of art
  - D. detail the characteristic style of an art movement
  - E. place an art movement in its historical context
2. According to the passage, which of the following statements about the “cultural centers” is true?
  - A. They were the venue where many later leaders of the Chicano civil rights movement first became politically active.
  - B. Though later widespread, they originated in San Francisco area.
  - C. Springing up in a number of communities, they initially had largely apolitical goals centered on art instruction.
  - D. They constituted the nucleus from which the Chicano civil rights movement originated.
  - E. Founded by artists, they provided support for the Chicano civil rights movement.
3. Which of the following best describes the relationship between the first paragraph and the second paragraph of the passage?
  - A. The first focuses on the mural artists as individuals; the second, on their actions as a group.
  - B. The first compares the mural revival with an earlier artistic movement; the second describes the context contemporary to the revival
  - C. The first defines the revival by distinguishing it from an earlier artistic movement; the second addresses the political goals of both the revival and its forerunner
  - D. The first presents an apparently plausible account of the relationship between the revival and its forerunner, the second calls that account into question
  - E. The first is concerned with the artistic aims and ambitions behind the San Francisco murals; the second considers their political significance

## Passage 63

Founder mutations are a class of disease-causing genetic mutations, each derived from its own ancestral “founder” in whom the mutation originated. While most disease-causing mutated are found in humans at a rate of one in a few thousand to one in a few million people, founder mutation can occur at much higher rates. This apparent anomaly is partially explained by the fact that most founder mutations are recessive: only a person with copies of the affected gene from both parents becomes ill. Most people with only one copy of the gene—“carriers”—survive and pass the gene to offspring. Furthermore, the single copy of a founder mutation often confers a survival advantage on carriers. For example, the **hereditary hemochromatosis mutation** protects carriers from iron-deficiency anemia because the mutated gene allows increased efficiency of iron absorption.

For the following question, consider each of the choices separately and select all that apply.

1. The passage indicates which of the following about founder mutations?
  - A. Carriers of founder mutation may receive certain benefits from the mutated gene.
  - B. People who inherit founder mutations from both parents can become ill as a result.
  - C. Founder mutations are less likely than other mutations to be passed to offspring.
2. The author of the passage mentions the “**hereditary hemochromatosis mutation**” primarily in order to illustrate
  - A. the circumstances under which a founder mutation fails to cause a disease.
  - B. how difficult it is to predict the effects of founder mutations on carriers.
  - C. the difference between harmful founder mutation and those that are beneficial.
  - D. how a single copy of a founder mutation can benefit a carrier.
  - E. a challenge to a particular theory about the transmission of founder mutations.

## Passage 64

A bird’s plumage, while contributing to structural integrity and participating in aerial locomotion, completely obscures a bird’s internal activity from human view, greatly impeding our attempts to understand birds as functioning animals. Plumage has even made it difficult to describe bird movement. When describing the movement of mammals, writers turn to well-worn clichés like “grace in motion.” A mammal’s rippling muscles slide smoothly over one another in eye-catching ways. With a mammal, whether a mouse or hippopotamus, we recognize that the underlying body parts are similar to our own and we know these parts will act predictably. Not so with a bird. For centuries, we knew little more about a bird’s movement than that it was a mystery that seemed to be based on the flapping of wings.

For the following question, consider each of the choices separately and select all that apply.

1. The passage mentions which of the following as an effect of bird plumage?
  - A. It contributes to a bird’s ability to fly.
  - B. It hides the inner workings of birds.

C. It contributes to the structural soundness of birds.

2. The author implies which of the following about the “underlying body parts” of nonhuman mammals?

- A. They are more similar to humans’ underlying body parts than most people assume.
- B. They are more predictable in their workings than are the underlying body parts of humans.
- C. Their smooth and graceful actions belie how complicated they actually are.
- D. They work in much different ways than do the underlying body parts of most birds.
- E. They are easier to observe and understand than are underlying parts of birds.

### Passage 65

Early life insurers in the United States found themselves facing the problem of obtaining reliable information, as they needed to rely on applicants themselves to provide truthful, complete answers to a standard set of questions. In an attempt to personalize the relationship between insurers and their individual applicants, firms selected highly respected local citizens to act as their agents. These agents were expected to evaluate the appearance of candidates, unearth evidence of unhealthy family histories or questionable habits, and attest to the respectability of the people writing testimonial letters on an applicant’s behalf. In short, the initial purpose of the agency system was not to actively solicit customers, but, rather, to recreate the glass-bowl mentality associated with small towns or **city neighborhoods**.

1. The primary purpose of the passage is to

- A. explain the original function of life insurance agents
- B. evaluate the effectiveness of early life insurance agents
- C. describe how life insurance was first introduced
- D. illustrate how the life insurance agency system changed over time
- E. compare the strategies used by life insurance in cities and in small towns

2. The author suggests which of the following about “city neighborhoods?”

- A. They were places where family histories were difficult to establish
- B. They were places where unhealthy behaviors had been successfully addressed
- C. They were locations that were well suited for recruiting insurance agents
- D. They offered a high degree of transparency about a resident’s personal history and character
- E. They offered potentially fruitful markets for the life insurance industry

### Passage 66

In the 1920s, Gerstmann described a set of problems found in people who have suffered damage to the brain’s left parietal lobe, problems that include being unable to understand arithmetic and having difficulty identifying one’s fingers. There is still no agreement on whether the symptoms Gerstmann noticed constitute a syndrome, but **the parts of the brain used for storing facts about numbers and for representing the fingers are close to each**



**other.** Mental representations of numbers and of fingers may therefore be functionally connected. A 2005 experiment had people perform some tasks requiring dexterity and others involving matching pairs of numbers, while an area of their parietal lobes—the left angular gyrus—was stimulated by a magnetic field. Facility at both sets of tasks was impaired.

1. The author of the passage would most likely agree that the highlighted statement suggests
  - A. a flaw in the experiment conducted in 2005
  - B. a means by which dexterity might compensate for a loss of arithmetic ability
  - C. an explanation for some of Gerstmann's observations
  - D. an anomaly in some of Gerstmann's results
  - E. a reason to doubt damage to the left parietal lobe as a causal factor in certain symptoms
2. The author of the passage describes the "2005 experiment" and its results primarily in order to
  - A. establish the proximity between the part of the brain used for storing numerical information and the part used for representing the fingers
  - B. illustrate the implications that Gerstmann's work may have for experimental research
  - C. cast doubt on the idea that damage to the left parietal lobe causes the set of problems that Gerstmann described
  - D. support a hypothesis about a significant association between parts of the brain related to fingers and to numbers
  - E. suggest that the problems Gerstmann noted in relation to numbers and fingers have a different cause than the other problems associated with parietal lobe damage

#### Passage 67

Analyzing levels of proportional representation of American Indians in state and local government jobs is important for several reasons. First, the basic idea underlying the theory of representative bureaucracy is that the demographic composition of bureaucracy should mirror the demographic composition of the general public. This is because in addition to its symbolic value, increased access to managerial position may lead to greater responsiveness on the part of policy makers to the policy interests of traditionally disadvantaged groups such as American Indians. Second, the focus on higher level jobs in bureaucracies (as opposed to non-managerial positions) is especially important because managerial positions represent a major source of economic progress for members of traditionally disadvantaged groups, as these jobs confer good salaries, benefits, status, security, and mobility. Third, it is important to know if there has been growth in the American Indian share of more desirable public sector positions over the last two decades. For instance, Peterson and Duncan argue that the population and power of American Indians have been growing in certain states. **Peterson and Duncan also suggest that this growth may reflect the possibility that American Indian population are becoming more active in nontraditional areas of politics, assimilating into mainstream culture, and securing with greater frequency leadership positions in non-tribal government.**

1. The primary purpose of the passage is to

- A. Summarize a demographic trend over time
  - B. Present findings on a demographic group
  - C. Analyze the demographic composition of a type of job
  - D. Explain the need for particular social research
  - E. Argue for the implementation of a social policy
2. Which of the following best describes the function of the highlighted sentence in the context of the passage as whole?
- A. It hypothesizes a phenomenon that might explain a point made in the preceding sentence.
  - B. It provides evidence that undermines that assertion made in the first sentence.
  - C. It offers a projection regarding the development of a trend mentioned earlier in the passage.
  - D. It presents an interpretation of a discrepancy noted earlier in the passage.
  - E. It proposed an implementation of a policy mentioned in the preceding sentence.
3. The passage suggests which of the following regarding “access to managerial positions” for disadvantaged groups?
- A. This access is only significant when the percentage of disadvantaged group members in managerial positions mirrors the percent of that group in the general public.
  - B. This access is largely the result of policy decisions made response to interest of those groups.
  - C. This access has meaning apart from any policy benefits it confer on those groups.
  - D. This access often creates increased access to non-managerial position for those groups.
  - E. The extent of this access tends to be similar across different disadvantaged groups.

### Passage 68

As of late 1980s, neither theorists nor large-scale computer climate models could accurately predict whether cloud systems would help or hurt a warming globe. Some studies suggested that a four percent increase in stratocumulus clouds over the ocean could compensate for a doubling in atmospheric carbon dioxide, preventing a potentially disastrous planetwide temperature increase. On the other hand, an increase in cirrus clouds could increase global warming.

That clouds represented the weakest element in climate models was illustrated by a study of fourteen such models. Comparing climate forecasts for a world with double the current amount of carbon dioxide, researchers found that the models agreed quite well if clouds were not included. But when clouds were incorporated, a wide range of forecasts was produced. With such discrepancies plaguing the models, scientists could not easily predict how quickly the world's climate would change, nor could they tell which regions would face dustier droughts or deadlier monsoons.

1. The author of the passage is primarily concerned with
- A. confirming a theory
  - B. supporting a statement
  - C. presenting new information
  - D. predicting future discoveries

## E. comparing points of view

2. It can be inferred that one reason the fourteen models described in the passage failed to agree was that

- A. they failed to incorporate the most up-to-date information about the effect of clouds on climate
- B. they were based on faulty information about factors other than clouds that affect climate
- C. they were based on different assumptions about the overall effects of clouds on climate
- D. their originators disagreed about the kinds of forecasts the models should provide
- E. their originators disagreed about the factors other than clouds that should be included in the models

3. The information in the passage suggests that scientists would have to answer which of the following questions in order to predict the effect of clouds on the warming of the globe?

- A. What kinds of cloud systems will form over the Earth?
- B. How can cloud systems be encouraged to form over the ocean?
- C. What are the causes of the projected planetwide temperature increase?
- D. What proportion of cloud systems are currently composed of cirrus clouds?
- E. What proportion of the clouds in the atmosphere form over land masses?

## Passage 69

Ralph Ellison was passionately interested in the visual arts. He immersed himself in Harlem's art scene in the 1930s, even apprenticing with sculptor Richmond Barthe for a time. Yet he was wary of projects aiming to provide a visual rendering of his novel *Invisible Man*. He reluctantly allowed Franklin Library to publish two illustrated versions of the novel but found the results disappointing and repeatedly rejected proposed film versions of the book. Despite his involvement in visual arts, Ellison insisted that only language could capture the complexity of American identity. This complexity consisted of the tension arising from the collision of the United States' written ideals, as outlined in the founding documents, and the historical and contemporary experiences molding the national consciousness.

1. It can be inferred that the author mentions Ellison's apprenticing with Richmond Barthe primarily in order to

- A. show that Ellison drew upon some aspects of the visual arts in developing his ideas for *Invisible Man*.
- B. show that Ellison's claim for the superiority of language derived from his experience with other art forms.
- C. establish that Ellison had experience with an art form that interested many leading figures of the 1930s Harlem arts scene.
- D. suggest that in the 1930s the Harlem art scene provided an environment in which artists were likely to work in several media.
- E. qualify Ellison's reservations about visual renderings of his work by showing that he was not indifferent to visual art.

2. Which of the following can be inferred from the passage about the “tension”?
- A. It partly resulted from social injustices that Ellison worked to alleviate
  - B. It came to Ellison’s attention partly as a result of experience with proposed film versions of *Invisible Man*.
  - C. Ellison thought that it could not be adequately represented by sculpture.
  - D. Ellison believed that it arose from contradictions within the United States’ founding ideals.
  - E. Ellison felt that it was an issue that could not adequately be addressed through the depiction of fictional characters.

### Passage 70

The recently announced discovery of the first known planet orbiting a pulsar (the ultradense, pulsating remnant off the supernova explosion of a star) turned out to be based on faulty data. Had this discovery been confirmed, theorists would have had difficulty accounting for the existence of such a planet. The supernova would certainly have destroyed any preexisting planets. This particular pulsar is relatively young, allowing little time for a new planet to have coalesced, and it rotates relatively slowly, implying that it has not interacted with any nearby star since the supernova.

But newer evidence of a different pulsar with planets is more promising. This is a rapidly spurring “millisecond pulsar” thought to be a much older object that has pulled gaseous material from a stellar neighbor, causing its rotational speed to increase. Leftover, unconsumed gas around such a pulsar could, in theory, coalesce into planets. Or the pulsar’s radiation might have vaporized a companion star, providing new material for planetary formation.

1. The primary purpose of the passage is to
- A. provide an example of the dangers of a recent discovery based on faulty data.
  - B. illustrate the difficulty of explanation concerning a recent discovery
  - C. assess the credibility of recent findings concerning the as yet unverified existence of a class of objects.
  - D. argue that a certain hypothesis fails to account for a seemingly contradictory phenomenon
  - E. demonstrate how difficult it might be to find out the reality of a phenomenon
2. Which of the following best describe the organization of the passage?
- A. Two sets of research findings relating to similar phenomenon are mentioned, and the theoretical implication of each are discussed.
  - B. A theoretical explanation of a phenomenon is presented and rejected, and a more attractive alternative is offered
  - C. Two independent and divergent interpretations of a set of observational data are compared and one is favored over the other
  - D. An example of careless scientific research is introduced and contrasted with a more rigorous analysis of the same material.

E. The state of knowledge of an unexplainable phenomenon is outlined and an approach to further investigation is recommended.

3. Which of the following can be inferred regarding the pulsar discussed in the first paragraph?

- A. Theorists initially doubted its existence
- B. If its existence had been confirmed, astronomers would and have turned their attention to the pulsar discussed in the second paragraph.
- C. If the supernovas explosions that created it had been more powerful, the resulting radiation would have preceded the subsequent formation of a planet.
- D. If it had interacted with a nearby star since the supernova explosion, it would rotate faster than it does.
- E. Astronomers' interest in it ultimately led to a new theory of planetary formation.

#### Passage 71

Many theorists now doubt that heat loss from Earth's core and radioactive decay are sufficient by themselves to produce all the energy driving the tectonic plates whose movements have helped shaped Earth's surface. This leaves a loose end in current geological theory. Herbert Shaw argues that because scientists have underestimated the input of substantial amounts of energy from extraterrestrial impactors (asteroids and comets striking Earth), they have difficulty accounting for the difference between the quantity of energy produced from sources intrinsic to Earth and that involved in plate tectonics. Whereas most geologists have treated the addition of energy through the bombardment of Earth's surface by such impactors as a process separate and independent from the movement of Earth's tectonic plates, Shaw asserts that these processes are indivisible. Shaw's revolutionary "open-system" view recognizes a **continuum** between terrestrial and extraterrestrial dynamics, whereas modern plate tectonic theory, like the classical geology developed during the nineteenth century, is founded on the view that Earth's geological features have changed through gradual, regular processes intrinsic to Earth, without reference to unique catastrophic events. Classical geology borrowed a decisive, if unspoken, premise from Newton—the independence of Earth's processes from any astronomical context.

1. The author's primary purpose is to
- A. identify the influences informing a particular geological theory about the processes that have shaped Earth's surface
  - B. identify differences between two views of the extraterrestrial impactors and argues that the phenomenon has influenced the development of plate tectonic theory
  - C. argue that an explanation is based on a dubious evidence and propose an alternative explanation
  - D. discuss an explanation and place that explanation under theoretical context
  - E. suggest that apparent discrepancy poses a serious problem for a particular theory that many have believed



2. The author of the passage mentions the “continuum” in order to
- A. point out a relationship between plate tectonics and the nineteenth-century geology
  - B. explain how a theory of Newton’s could influence geology and plate tectonic theory.
  - C. distinguish between two sources of energy that contributed to the development of Earth’s surface.
  - D. point out a similarity between the surface of impactors and the surface of Earth.
  - E. identify a feature of Shaw’s view that deviates from current scientific theories.
3. The passage suggests which of the following about tectonic theory?
- A. It has led scientists to overlook an important contribution to classical geologists from Newton.
  - B. It has been more successful than was classical geology in accounting for heat loss from.
  - C. It is based on premise about Earth’s processes discerned in Newton’s thought.
  - D. It has correctly explained the effects of extraterrestrial impactors on Earth’s surface.
  - E. It corrects a fundamental flaw in classical geology.
4. It can be inferred from the passage that Shaw would be most likely to      which of the following statements about Earth’s geological features?
- A. Processes both intrinsic and extrinsic to Earth have contributed to their formation.
  - B. They were probably formed more recently than proponents of current geophysical theories have acknowledged.
  - C. The energy required to produce them derived primarily from the impact of asteroids and comets striking Earth.
  - D. Their distribution over Earth’s surface provides evidence about the amount of energy contributed by extraterrestrial impactors.
  - E. Their formation is better accounted for by Newton’s theory than current geophysical theories.
5. Which of the following can be inferred from the passage about the “geologists”?
- A. They underestimate the frequency with which extraterrestrial impactors strike Earth.
  - B. They regard energy from extraterrestrial sources as irrelevant to terrestrial dynamics.
  - C. Their views about terrestrial dynamics challenge one of Newton’s fundamental principles.
  - D. Their views about terrestrial dynamics formed the basis for Shaw’s “open-system” view.
  - E. Their views about extraterrestrial dynamics pose a challenge to current geophysical theory.

### Passage 72

Human impacts on the natural environment during the later part of the Holocene (beginning about 4,000 years ago) complicate investigations into environmental change during that period because the signals produced by human-and climate-induced change are sometimes difficult to separate. For example, in the later Holocene, one indicator of increased aridity due to climate change is an increase in pollen from grasses, as forest vegetation gives way to grassland. Such a change in vegetation could alternatively be attributed to human impact in the form of agricultural development. **Examples of such human impact from**

**4,000 years ago would be small-scale, however, since the broad ecosystem changes brought about by the widespread adoption of agricultural technologies occurred later.**

1. Which of the following best describes the function of the highlighted sentence in the context of the passage as a whole?
  - A. It provides an example of the kind of problems that often complicate investigations into environmental change.
  - B. It call into question the reliability of the established dates for later Holocene agricultural development.
  - C. It describes the nature of localized agricultural developments during the later Holocene.
  - D. It outlines a hypothesis that draws on evidence discussed earlier in the passage.
  - E. It limits the scope of a particular complication mentioned earlier in the passage.
2. According to the passage, which of the following is true regarding environmental changes 4,000 years ago?
  - A. No localized increases in grass pollen were caused by agricultural development.
  - B. Increases in grass pollen were at least sometimes a reflection of an increase in aridity.
  - C. Wholesale ecosystem changes probably resulted from agricultural development.
  - D. Any small-scale changes occurring then would not be detectable now.
  - E. Environmental change helped induce the adoption of agricultural technologies.

### Passage 73

Meggers argued that agriculture depends on extracting nutrients from soils into edible crops, so premodern societies in Amazonia could never grow large because underlying soils are impoverished. **In Meggers' view the population size that a culture could reach depended upon the agricultural potential of its environment.** Meggers accepted that fish and turtle resources of the Amazon made possible the long riverside villages the explorer Orellana described in 1542, but she dismissed as exaggerated Carvajal's estimates of tens of thousands of people in those settlements, and she was sure those settlements did not have inland counterparts. Supporting this point, the Omagua, a riverbank people and one of the greatest chiefdoms observed by Carvajal as a member of Orellana's expedition, regarded hinterland forests as unpopulated wilderness.

1. In the context of the passage the highlighted sentence serves to
  - A. explain the broader rationale for a conclusion described in the preceding sentence
  - B. suggest some of the drawbacks of the riverbank location of the villages described in the following sentence
  - C. acknowledge information that appears to undermine a description attributed to Orellana
  - D. introduce a principle that appears to be contradicted by the agricultural development of premodern Amazonia
  - E. give a reason for an upward revision in earlier estimates for premodern Amazonia
2. From the passage it can be inferred that Omagua depended on

- A. overland transport to communicate between villages
- B. foraging inland to obtain foodstuffs not available locally
- C. some form of fertilization to boost agricultural production
- D. fish and turtles for at least part of their diet
- E. trade with other peoples for some raw materials

#### Passage 74

When selecting a nest, the female of the river blenny (a small fish) appears to be sensitive to both size and orientation. Blennies deposit their eggs preferably in nests under large stones and in nests facing southeast. Southeast-facing nests contain larger egg clutches, a fact that cannot be completely explained by differences in nest stone sizes. Moreover, in a recent study, **current speeds** upstream of the nest and at the nest entrance were similar for nests facing southeast and those facing in other directions. A southeast-facing entrance *per se* thus seems to be the specific nest feature preferred by females, rather than the effect of selective positioning on current at nest entrance. The reasons for this preference are unclear, however.

1. The passage is concerned with which of the following
  - A. Determining the different ways in which current speeds can influence the nesting preferences of female river blennies
  - B. Establishing nest orientation as a determining factor in egg laying among female river blennies
  - C. Questioning the importance of nest size as an influence on egg laying among female river blennies
  - D. Comparing the features of female river blennies that face southeast with those of nests facing in other directions
  - E. Examining how female river blennies determine the relative importance of nest size versus nest orientation
2. The author of the passage considers “current speeds” in order to
  - A. identify a factor that undermines the significance of nest stone size for female river blennies
  - B. indicate one possible advantage of river blenny nests that do not face southeast
  - C. eliminate a possible explanation for a nest orientation tendency among female river blennies
  - D. indicate why female river blennies are sensitive to both size and orientation of possible nests
  - E. suggest a reason why many female blennies prefer southeast-facing nests

#### Passage 75

Our study revealed that nest-guarding long-tailed skinks (a species of lizard) homed (returned to their nests) more successfully when displaced shorter distances. There are two

reasons why homing success rates decreased with increasing displacement distance. One possibility is that females were simply displaced too far to find their way home. **However, this is unlikely given that some individuals managed to find their way home from each distance we used.** The second possibility deals with trade-offs between the risks associated with making a long return trip and the benefits of returning. Animals should expend energy only when the associated costs are low. As reptiles increase the time spent moving, their daily energy expenditure increases dramatically. The energetic costs of returning home and the chances that the eggs will have been preyed upon during the return trip both increase substantially as displacement distance increases. For example, the 130 hours (5.5 days) that female skinks spent returning from a distance of 300 meters is sufficient for an egg-eating snake to locate and prey upon the entire clutch. However, females with larger clutches were more likely to home at distances over 50 meters. For these females, the relative fitness benefits associated with having more eggs successfully hatch may outweigh the energetic costs of returning to a nest site, even if the nest may have already been preyed upon.

1. The primary purpose of the passage is to
  - A. question the validity of research on nest-guarding behavior in long-tailed skinks
  - B. consider explanations for a finding regarding long-tailed skinks
  - C. discuss the importance of homing for long-tailed skinks
  - D. describe the relationship between clutch size and homing success in long-tailed skinks
  - E. identify the benefits of a behavior common among long-tailed skinks
2. The claim in the highlighted sentence assumes which of the following about the individuals that managed to find their way home from each distance?
  - A. They were less able to detect egg-eating predators than were the other long-tailed skinks studied.
  - B. They were more averse to risk than were the other long-tailed skinks studied
  - C. They expended less energy when homing than did the other long-tailed skinks studied.
  - D. They did not possess better homing skills than did the other long-tailed skinks studied.
  - E. They had significantly smaller clutches than did the other long-tailed skinks studied.
3. The “second possibility” implies which of the following as a possible explanation for the female long-tailed skinks that failed to home from distances over 50 meters?
  - A. They had relatively small clutches
  - B. They were unable to find their way home
  - C. They lacked sufficient energy to home successfully
  - D. They had male long-tailed skinks guarding their clutches
  - E. They detected evidence of egg-eating snakes in the vicinity of their nests.

#### Passage 76

Although some skeptics points to Arctic places such as the high latitudes of Greenland, where temperatures seem to have fallen, a recent scientific report concludes that in recent decades average temperatures have increased faster in the Arctic than elsewhere. Scientists

have long suspected that several factors lead to greater temperature swings at Earth's Polar Regions than elsewhere. First, most of the Arctic is covered in snow and ice, which are highly reflective; if snow and ice melt, the exposed soil, which absorbs heat, serves to accelerate warming. Second, the polar atmosphere is thin, so little energy is required to warm it. Third, less solar energy is lost in evaporation at the frigid poles than in the tropics.

For the following question, consider each of the choices separately and select all that apply.

1. The passage mentions which of the following as factors that might lead to large temperature swings in Earth's Polar Regions?
  - A. The amount of energy lost due to evaporation at the poles
  - B. Soil exposure due to melting snow
  - C. The relatively thin atmosphere at the poles
2. In pointing to the apparent temperature change in the high latitudes of Greenland, the skeptics mentioned in the passage intend to raise as a question whether
  - A. Greenland is less likely to experience extreme temperature changes than are other areas of the Arctic.
  - B. Those more localized temperature drops might indicate an important trend not captured by the upward trend of average Arctic temperatures.
  - C. There might be a reversal of the temperature trend in the high latitudes of Greenland.
  - D. The factors that cause temperature change in the high latitudes of Greenland are different from those that affect the rest of the Arctic.
  - E. Greenland has more ice and snow on the ground than do other areas of the Arctic.

#### Passage 77

Carolina Hospital notes that Cuban-American writers who write primarily in English are dismissed from anthologies and analyses of Cuban exile literature on that account. She argues that since these writers were born in Cuba and consider themselves Cuban writers, they should not be ignored, and maintains that they represent a new phase of Cubanness, one that is expressed in the language **comfortable** to its writers, English. Moreover, another critic notes that the Spanish and English traditions of Cuban-Americans writing have different but equally viable functions. The English branch seeks to create a distinctive culture of Cuban roots in the United States, whereas the Spanish branch wishes to preserve a specifically Cuban culture while seeking affiliation with the canon of Latin American letters.

Consider each of the choices separately and select all that apply

1. Hospital, as presented in the passage, would probably agree with which of the following statements about Cuban-American writing?
  - A. For Cuban-American writers, writing in English is not irreconcilable with Cuban identity.
  - B. All Cuban-American writers are generally recognized as contributing to Cuban exile literature



C. It is appropriate for anthologies of Cuban exile literature to include works written both in Spanish and in English.

2. In the context in which it appears, “comfortable” most nearly means

- A. prosperous
- B. sufficient
- C. agreeable
- D. restful
- E. painless

### Passage 78

Exotic insect pests can produce both short-and long-term effects of forest ecosystems. Short-term effects include the disturbances directly associated with the action of the pest, which may cause the defoliation, loss of vigor, or death of trees. Long-term effects are primarily mediated by changes in tree species composition and the consequent alternations of forest structure, productivity, and nutrient uptake. Exotic pests are more efficient than most abiotic disturbances (e.g., fire or wind) at producing long-term changes in species composition. Pests often target specific tree species and, if they become established, they usually remain as permanent components of the ecosystem. Shifts in forest species composition ramify through the ecosystem in many ways because tree species have different, often unique properties.

Consider each of the choices separately and select all that apply

1. The passage mentions which of the following as effects of exotic pests on forest ecosystems?

- A. Decreased vitality in trees
- B. Defoliation of trees
- C. Change in forest structure

2. The author of the passage mentions the “unique properties” of tree species primarily in order to help explain

- A. Why pests tend to target specific tree species
- B. Why pests can have long-term effects on entire ecosystems
- C. How pests contribute to shifts in forest species composition
- D. How pests are able to become established in an ecosystem
- E. How some tree species are able to withstand the effects of pests

### Passage 79

For centuries, oak was the wood of choice for European shipbuilders. However, toward the end of the eighteenth century, as British oak supplies grew scarce, shipbuilders there **turned to** teak and found in it an ideal substitute. Other woods expand and contract at different rates than oak, so repairs to oak ships done with those woods split or leak. Only teak matches oak’s expansion coefficient and stays watertight. It is unmatched in its resistance to rot and pests, and

its oils even protect nails against corrosion. Moreover, it was one of two important tropical hardwoods (with Central American mahogany) that dried light enough to float downriver—the only way to transport timber in quality from the inland jungles where it grew.

Consider each of the choices separately and select all that apply

1. It can be inferred from the passage that an advantage of teak over mahogany is that teak is

- A. More compatible with the materials in existing ships
- B. Less susceptible to rot and pests
- C. Available in great quantities in inland jungles

2. In the context in which it appears, “turned to” most nearly means

- A. Rotated
- B. Resorted to
- C. Deflected from
- D. Reverted to
- E. Revolved around

#### Passage 80

Astronomers have had difficulty accounting for certain planets discovered outside our solar system. They are called hot Jupiters because each is similar in mass to Jupiter, the largest solar-system planet, but orbits its parent star at a fraction of the distance at which **Earth**, let alone Jupiter, orbits the Sun. In the standard, solar-system-based theory of planetary formation, such a massive planet could not form so close to a star. So most **attempts** to explain a hot Jupiter’s existence envision it forming farther away, then migrating inward. According to one hypothesis, the planet’s gravitational field tugs on the proto-planetary disk of dust and gas from which it formed. The disk exerts its own gravitational tug, and this interplay of forces robs the planet of momentum in its orbital path, forcing it to spiral in toward the star. According to another hypothesis, the planet’s gravitational field is so strong that it creates a groove in the disk, partitioning it into inner and outer regions; the resulting gravitational interactions between the planet and these regions cause the planet to lose orbital momentum and spiral inward. Another question remains: what prevents the planet from continuing its spiral until it collides with the star?

1. The author of the passage mentions “Earth” primarily in order to

- A. stress the massive size of a hot Jupiter
- B. emphasize the proximity of a hot Jupiter to its parent star
- C. imply that hot Jupiters are unlikely to harbor extraterrestrial life
- D. point out differences between Earth and Jupiter with regard to their orbital distance from the Sun
- E. illustrate how hot Jupiters might fit into the standard theory of planetary formation

2. Which of the following elements is part of one but not both of the hypotheses discussed in

the passage?

- A. An interplay of gravitational forces
- B. A loss of orbital momentum
- C. A protoplanetary disk composed of dust and gas
- D. A protoplanetary disk divided into two regions
- E. The movement direction of hot Jupiters

3. It can be inferred from the passage that the “attempts” share which of the following goals?

- A. to explain how a Jupiter-sized planet could form so close to its parent star
- B. to explain what prevents a hot Jupiter from colliding with its parent star
- C. to determine whether a hot Jupiter is formed from a protoplanetary disk of dust and gas
- D. to determine whether a hot Jupiter’s gravitational field is strong enough to create a groove in its protoplanetary disk
- E. to account for hot Jupiters in a way that is not inconsistent with the standard theory of planetary formation

#### Passage 81

Archaeologists studying Bonito phase (ca. A.D. 900-1140) Native American ceramics from Chaco Canyon, New Mexico, observed that many pots had been altered after firing to revise their decorative designs—usually, intricate geometric patterns painted in black on white slipped surfaces. In some cases, a new design was imposed over an earlier one; less often, the original design was simply covered with white slip. Crown and Wills doubt that the alterations were made to correct design errors. Many Chaco pots with design errors were left unaltered. Furthermore, when errors were corrected, revisions were made prior to firing—either by painting directly over the error or by scraping off designs and applying new slip and paint, which is a less time-consuming method than repainting and refiring flawed pots.

1. The author of the passage mentions Crown and Wills primarily in order to
- A. Distinguish among different factors that might have caused Chaco potters to alter their pots’ decorative designs.
  - B. Introduce new evidence related to the question of why Chaco potters altered their pots’ decorative designs.
  - C. Show how one potential explanation for the alteration of Chaco pots has been discounted.
  - D. Present a hypothesis about why Chaco pots were altered to revise their decorative designs.
  - E. Explain how archaeologists discerned the method by which Chaco pots were originally decorated.

2. According to the passage, which of the following is true of Bonito phase Chaco pots?

- A. Relatively few of them have original designs concealed beneath white surfaces.
- B. Relatively few of them were altered after firing.
- C. Many of their alterations increased the intricacy of their painted designs.
- D. Many of them have some flaw in their shape or structure.
- E. Many of them were altered more than once.

### Passage 82

The editors of the essay collection *Romantic biography* tell us repeatedly that biography is an invention of the Romantic period in British literature (late eighteenth and early nineteenth centuries), yet we are never shown that process of invention motion. Hazlitt, the most prominent example of the Romantic biographer, is almost invisible. The Romantic period was not just the period in which biography was invented—or, rather, the period in which some of its informing principles were invented, since biography could just as easily be said to have originated in the **scandalous memoirs** that formed part of the pre-Romantic culture of the novel. It was also the period in which biography, through its sheer ubiquity, became an object of major ideological significance within British culture.

1. The passage mentions the “scandalous memoirs” that were written prior to the Romantic period primarily in order to
  - A. indicate an alternative account of the origins of biography
  - B. compare these memoirs to Romantic biography
  - C. explain how biography became ubiquitous in British culture
  - D. question the ideological significance accorded to biography
  - E. suggest that biographies were not as popular as memoirs
2. According to the passage, biography attained great significance within British culture during the Romantic period because biographies
  - A. were associated with scandal
  - B. were easy to read and comprehend
  - C. were so widespread in Britain at the time
  - D. challenged conventional British ideologies
  - E. contributed to the development of the novel

### Passage 83

When studying shrimp feeding from hydrothermal vents at the bottom of the ocean, biologists were surprised that the shrimps’ reproductive cycles followed seasonal patterns. Far beyond the reach of sunlight, and with food abundant around the vents all year round, why should such animals reproduce seasonally? The answer might involve their offspring, which in their larval form drift in the currents to colonize new vents. The larvae must feed during their trip, and their springtime release coincides with a peak in algae raining down from surface waters. **So far, researchers have found no evidence of seasonal breeding among**

**vent-dwelling species that provide their offspring with yolk to sustain them or among vent-dwelling species found in areas of the ocean with no seasonal algae blooms.**

1. Which of the following best describes the function of the highlighted sentence?
  - A. It casts doubt on the accuracy of earlier observations of seasonal breeding among shrimp species living near hydrothermal vents.
  - B. It undermines the explanation proposed for seasonal breeding among some shrimp species living near hydrothermal vents.
  - C. It suggests that alternative theories are needed to explain seasonal breeding among shrimp species living near hydrothermal vents.
  - D. It describes the survival benefits to shrimp of mating in parts of the ocean where algae blooms rain down abundantly.
  - E. It supports the explanation proffered for the seasonal breeding observed among some shrimp species living near hydrothermal vents.

#### Passage 84

There is mounting evidence that the frequency and magnitude of landsliding is changing in many parts of the world in response to climate change. This is not surprising, given that precipitation is one of the two external triggering mechanisms—the other being seismic activity—involved in the formation of landslides. **Evidence from the past** clearly indicates that cycles of elevated landslide activity have been followed by cycles of low activity, and that these are correlated with climate fluctuations over a variety of timescales.

What sets current changes in landslide activity apart is the likely influence of anthropogenic (i.e., human-caused) factors, either acting alone or in concert with climate, which can further modify the process of landsliding and the nature of ecosystem responses. Among these factors, deforestation and land-use change have the potential to influence the frequency and magnitude of landsliding because of their direct effects on vegetation attributes that influence slope stability. The extent and conditions under which mountain ecosystems are resilient to these changes—that is, the amount of disturbance they can absorb before changing into states with different structure and function—are not known. Addressing this issue is crucial for the long-term conservation of mountainscapes.

1. The author of the passage cites “evidence from the past” in order to
  - A. Support a partial explanation
  - B. Concede a potential objection
  - C. Dismiss an apparent counterexample
  - D. Highlight a scientific consensus
  - E. Account for a historical anomaly
2. The passage makes which of the following claims?
  - A. A rise in precipitation resulting from human factors has increased the frequency and magnitude of landsliding.



- B. Human factors have led to greater changes in landsliding activity than have cyclical climate fluctuations.
- C. Decreases in landsliding activity have historically been accompanied by changes in climate.
- D. Slope stability is more influenced by seismic activity than it is by human factors.
- E. Changes in land-use patterns in mountain ecosystems are generally correlated with changes in climate.

For the following question, consider each of the choices separately and select all that apply.

3. The author of the passage suggests which of the following about the role of human factors in landsliding activity?
- A. Human factors can intensify or alter the effects of climate change on landsliding activity.
  - B. It is likely that human factors affect landsliding activity more than climate change does.
  - C. Until recently, human factors did not have much impact on landsliding activity.

#### Passage 85

There have been numerous well-documented extinctions of indigenous species caused by the introduction of nonindigenous predators and pathogens. However, surprisingly few extinctions of indigenous species can be attributed to competition from introduced species. For example, during the past 400 years, 4,000 plant species have been introduced into North America, and these nonindigenous plants currently account for nearly 20 percent of North America's plant species. Yet no evidence exists that any indigenous North American plant species became extinct as a result of competition from introduced plant species. The scarcity of documented extinctions caused by competition from new species could mean that such extinctions take longer to occur than scientists initially believed or, alternatively, that extinctions are rarely caused by competition from nonindigenous species.

1. The passage is concerned primarily with
- A. Pointing out that a particular type of species extinction is rarely known to occur
  - B. Proposing a possible explanation for conflicting data about a particular type of species extinction
  - C. Resolving a debate about the frequency of a particular type of species extinction
  - D. Comparing two theories regarding possible causes of a particular type of species extinction
  - E. Refuting a proposed explanation for the increasingly rare occurrence of a particular type of species extinction
2. The author introduces statistics about North America's nonindigenous plant species primarily in order to
- A. undermine a proposed explanation for the absence of any evidence for the occurrence of a particular phenomenon.
  - B. contrast the effect of introduced plant species in North America with the effect that introduced animal species have had.

- C. suggest that North America's indigenous plants are a domain in which there has been ample scope for a particular effect to have occurred.
- D. emphasize how much the ecology of North America has been affected over the past 400 years by the introduction of nonindigenous species
- E. substantiate a claim about the overall effect that the introduction of nonindigenous species tends to have on indigenous populations.

### Passage 86

The physicist Wallace Sabine pioneered the scientific study of architectural acoustics when he was asked in 1895 to fix a university lecture hall in which the echo of a speaker's words rendered them unintelligible. He found that the length of time it takes a sound's echo to decay is determined by the absorption of the sound's original energy by surrounding materials. By hanging panels of sound-absorbing felt on the walls, Sabine reduced the echo enough to make the hall usable. And the data he compiled yielded a mathematical formula for the relationship between a room's echo duration, its quantity and quality of sound-absorbing materials, and its spatial volume.

1. Which of the following can be inferred about the "university lecture hall" mentioned in the passage?
  - A. It was not originally designed to be used for lectures.
  - B. It was more suitable for listening to music than for listening to the spoken word.
  - C. Its walls had surfaces made of material with very poor sound-absorbing properties.
  - D. Its poor acoustics resulted from its being designed to accommodate a large audience.
  - E. It was constructed at a time when sound-absorbing building materials were not readily available.
2. The passage suggests that Sabine's work made which of the following possible for the first time?
  - A. To make a room soundproof.
  - B. To build an auditorium out of sound-absorbing materials.
  - C. To construct an enclosed space in which sound would not echo.
  - D. To design a building to meet predetermined specifications with regard to echo duration.
  - E. To render any large room usable for public lectures and performances.

### Passage 87

Soil communities are dependent on plants for organic matter. Plants provide organic matter for soil communities through the decomposition of leaf litter, by oozing nutrients from roots, or through other methods of deposition of organic compounds into the soil environment. As a result of these diverse methods by which plants supply resources, unique soil communities form under different plant species and under plant communities that differ in composition. If a nonnative plant species invades an aboveground community of flora and fauna, it can alter links between the native aboveground community and the belowground soil

community. For example, an invading nonnative plant could alter the quantity of leaf litter production, which would alter nutrient contributions to the soil.

For the following question, consider each of the choices separately and select all that apply.

1. According to the passage, plants supply resources to soil communities by which of the following methods?
  - A. Some plants supply resources to soil communities by promoting diversity of aboveground flora and fauna.
  - B. Some plants supply resources to soil communities by oozing nutrients from their roots.
  - C. Some plants supply resources to soil communities by depositing leaf litter.

For the following question, consider each of the choices separately and select all that apply.

2. Which of the following statements about the connection between aboveground plants and belowground soil communities can be inferred from the passage?
  - A. Because of the nature of the link between above-and belowground communities, many soil communities are deficient in nutrients.
  - B. The extent to which soil communities are dependent on aboveground plants is extremely variable from one soil community to another.
  - C. Because different plants supply resources to soil communities in different ways, distinctive soil communities form under different plant communities.

### Passage 88

In recent decades, scholars of American literature have skillfully revealed authors' simultaneous accommodation and resistance to an increasingly commercialized, capitalized environment during the early nineteenth century. Historians of the period have not, however, fully exploited literary criticism, due to the disciplinary boundaries that mark contemporary academic research. Few historians have extensive training in critical theory and its specialized languages, and the sheer volume of work in early American history and literature challenges anyone who would master either field, much less both. Moreover, historians study people across the nation, but much literary scholarship called "American" actually examines works produced in northeastern states. And historians usually study the operations of capitalism in its details, while literary critics produce a generalized picture of literary commodification.

1. As discussed in the passage, the literary scholars and the historians differ in which of the following ways?
  - A. The amount of scholarship that they produce
  - B. The nature of their geographic focus
  - C. The extent to which they are critical of early capitalism
  - D. The extent to which they are interested in interdisciplinary study
  - E. The extent to which they restrict their focus to a particular time period

2. The passage cites which of the following as a reason for historians' failure to fully exploit literary criticism?

- A. Historians' overly thematic approach to literature
- B. Historians' conservative notion of what constitutes literature
- C. Historians' lack of interest in critical theory
- D. The distinctive nature of much literary criticism
- E. The ahistorical quality of much literary criticism

### Passage 89

*Mary Barton*, particularly in its early chapters, is a moving response to the suffering of the industrial worker in the England of the 1840s. What is most impressive about the book is the intense and painstaking effort made by the author, Elizabeth Gaskell, to convey the experience of everyday life in working class homes. Her method is partly documentary in nature: the novel includes such features as a carefully annotated reproduction of dialect, the exact details of food prices in an account of a tea party, an itemized description of the furniture of the Bartons' living room, and a transcription (again annotated) of the ballad "The Oldham Weaver". The interest of this record is considerable, even though the method has a slightly distancing effect.

As a member of the middle class, Gaskell could hardly help approaching working-class life as an outside observer and a reporter, and the reader of the novel is always conscious of this fact. But there is genuine imaginative re-creation in her accounts of the walk in Green Heys Fields, of tea at the Bartons' house, and of John Barton and his friend's discovery of the starving family in the cellar in the chapter "Poverty and Death." Indeed, for a similarly convincing re-creation of such families' emotions and responses (which are more crucial than the material details on which the mere reporter is apt to concentrate), the English novel had to wait 60 years for the early writing of D. H. Lawrence. If Gaskell never quite conveys the sense of full participation that would completely authenticate this aspect of *Mary Bartons*, she still brings to these scenes an intuitive recognition of feelings that has its own sufficient conviction.

The chapter "Old Aice's History" brilliantly dramatizes the situation of that early generation of workers brought from the villages and the countryside to the urban industrial centers. The account of Job Leigh, the weaver and naturalist who is devoted to the study of biology, vividly embodies one kind of response to an urban industrial environment: an affinity for living things that hardens, by its very contrast with its environment, into a kind of crankiness. The early chapters—about factory workers walking out in spring into Green Heys Fields, about Alice Wilson, remembering in her cellar the twig-gathering for brooms in the native village that she will never again see, about job Leigh, intent on his impaled insects—capture the characteristic responses of a generation to **the new and crushing experience of industrialism**. The other early chapters eloquently portray the development of the instinctive cooperation with each other that was already becoming an important tradition among workers.

1. It can be inferred from examples given in the last paragraph of the passage that which of the following was part of "the new and crushing experience of industrialism" for many members of the English working class in the nineteenth century.

- A. Extortionate food prices

- B. Geographical displacement
  - C. Hazardous working conditions
  - D. Alienation from fellow workers
  - E. Dissolution of family ties
2. It can be inferred that the author of the passage believes that Mary Barton might have been an even better novel if Gaskell
- A. concentrated on the emotions of a single character
  - B. made no attempt to re-create experiences of which she had no firsthand knowledge
  - C. made no attempt to reproduce working-class dialects
  - D. grown up in an industrial city
  - E. managed to transcend her position as an outsider
3. Which of the following best describes the author's attitude toward Gaskell's use of the method of documentary record in *Mary Barton*?
- A. uncritical enthusiasm
  - B. Unresolved ambivalence
  - C. Qualified approval
  - D. Resigned acceptance
  - E. Mild irritation
4. Which of the following is most closely analogous to Job Leigh in *Mary Barton*, as that character is described in the passage?
- A. An entomologist who collected butterflies as a child
  - B. A small-town attorney whose hobby is nature photography
  - C. A young man who leaves his family's dairy farm to start his own business
  - D. A city dweller who raises exotic plants on the roof of his apartment building
  - E. A union organizer who works in a textile mill under dangerous conditions

#### Passage 90

Although, recent years have seen substantial reductions in noxious pollutants from individual motor vehicles, the number of such vehicles has been steadily increasing. Consequently, more than 100 cities in the United States still have levels of carbon monoxide, particulate matter, and ozone (generated by photochemical reactions with hydrocarbons from vehicle exhaust) that exceed legally established limits. There is a growing realization that the only effective way to achieve further reductions in vehicle emissions—short of a massive shift away from the private automobile—is to replace conventional diesel fuel and gasoline with cleaner-burning fuels such as compressed natural gas, liquefied petroleum gas, ethanol, or methanol.

All of these alternatives are carbon-based fuels whose molecules are smaller and simpler than those of gasoline. These molecules burn more cleanly than gasoline, in part because they have fewer, if any, carbon-carbon bonds, and the hydrocarbons they do emit are less likely to generate ozone. The combustion of larger molecules, which have multiple carbon-carbon bonds,



involves a more complex series of reactions. These reactions increase the probability of incomplete combustion and are more likely to release uncombusted and photochemically active hydrocarbon compounds into the atmosphere. On the other hand, alternative fuels do have drawbacks. Compressed natural gas would require that vehicles have a set of heavy fuel tanks—a serious liability in terms of performance and fuel efficiency—and liquefied petroleum gas faces fundamental limits on supply.

Ethanol and methanol, on the other hand, have important advantages over other carbon-based alternative fuels: they have a higher energy content per volume and would require minimal changes in the existing network for distributing motor fuel. Ethanol is commonly used as a gasoline supplement, but it is currently about twice as expensive as methanol, the low cost of which is one of its attractive features. Methanol's most attractive feature, however, is that it can reduce by about 90 percent the vehicle emissions that form ozone, the most serious urban air pollutant.

Like any alternative fuel, methanol has its critics. Yet much of the criticism is based on the use of “gasoline clone” vehicles that do not incorporate even the simplest design improvements that are made possible with the use of methanol. It is true, for example, that a given volume of methanol provides only about one-half of the energy that gasoline and diesel fuel do; other things being equal, the fuel tank would have to be somewhat larger and heavier. However, since methanol-fueled vehicles could be designed to be much more efficient than “gasoline clone” vehicles fueled with methanol, they would need comparatively less fuel. Vehicles incorporating only the simplest of the engine improvements that methanol makes feasible would still contribute to an immediate lessening of urban air pollution.

1. According to the passage, incomplete combustion is more likely to occur with gasoline than with an alternative fuel because
  - A. the combustion of gasoline releases photochemically active hydrocarbons
  - B. the combustion of gasoline involves an intricate series of reactions
  - C. gasoline molecules have a simple molecular structure
  - D. gasoline is composed of small molecules.
  - E. gasoline is a carbon-based fuel
2. Which of the following most closely parallels the situation described in the first sentence of the passage?
  - A. Although a town reduces its public services in order to avoid a tax increase, the town's tax rate exceeds that of other towns in the surrounding area.
  - B. Although a state passes strict laws to limit the type of toxic material that can be disposed of in public landfills, illegal dumping continues to increase.
  - C. Although a town's citizens reduce their individual use of water, the town's water supplies continue to dwindle because of a steady increase in the total population of the town.
  - D. Although a country attempts to increase the sale of domestic goods by adding a tax to the price of imported goods, the sale of imported goods within the country continues to increase.
  - E. Although a country reduces the speed limit on its national highways, the number of fatalities caused by automobile accidents continues to increase.

3. It can be inferred from the passage that a vehicle specifically designed to use methanol for fuel would
- A. be somewhat lighter in total body weight than a conventional vehicle fueled with gasoline
  - B. be more expensive to operate than a conventional vehicle fueled with gasoline
  - C. have a larger and more powerful engine than a conventional vehicle fueled with gasoline
  - D. have a larger and heavier fuel tank than a “gasoline clone” vehicle fueled with methanol
  - E. average more miles per gallon than a “gasoline clone” vehicle fueled with methanol
4. The passage suggests which of the following about air pollution?
- A. Further attempts to reduce emissions from gasoline-fueled vehicles will not help lower urban air-pollution levels.
  - B. Attempts to reduce the pollutants that an individual gasoline-fueled vehicle emits have been largely unsuccessful.
  - C. Few serious attempts have been made to reduce the amount of pollutants emitted by gasoline-fueled vehicles.
  - D. Pollutants emitted by gasoline-fueled vehicles are not the most critical source of urban air pollution.
  - E. Reductions in pollutants emitted by individual vehicles have been offset by increases in pollution from sources other than gasoline-fueled vehicles.

### Passage 91

Based on evidence from tree rings, pollen samples and other records, scientists have for a long time assumed that interglacials—warm interludes between ice ages—were as mild and uniform as the Holocene, the present interglacial, has been for all of its 8,000 to 10,000 years. But new research in Greenland has put this assumption into question.

Researchers on two teams, the Greenland Ice-Core Project (GRIP) and the Greenland Ice Sheet Project 2 (GISP2), have analyzed two different cylinders of ice, each about two miles in depth, pulled up from the Greenland ice sheet. Such ice cores trap gases, bits of dust, and other chemicals that were present in the snow that fell over Greenland for thousands of years and then became compressed into ice. By studying these components, scientists have obtained a detailed archive of many aspects of climate, including air temperatures, snowfall, and concentrations of greenhouse gases in the atmosphere.

Findings from the upper sections of the cores have confirmed what scientists already knew: climate during the last ice age fluctuated rapidly. But scientists were astonished by findings from the lower sections of the GRIP core, which provided a close look at an interglacial period other than our own, the Eemian interglacial, a period that lasted from 135,000 to 115,000 years ago. Data from GRIP seem to indicate that the Eemian climate swung at least as wildly as the climate of ice age periods.

Researchers' clues to the Eemian climate come from measurements of the ratios of two slightly different types of oxygen, isotopes oxygen-16 and oxygen-18, preserved in the GRIP core. These ratios register the fluctuations of air temperatures over the seasons and years. When the air was warm, vapor containing the heavier isotope, oxygen-18, condensed and formed precipitation, in the form of snow, more readily than did vapor containing oxygen-16. Thus,

snow that fell during warmer periods contains proportionally more oxygen-18 than snow deposited during cold spells. Evidence of rapid climate shifts was also drawn from other sources, such as measurements of amounts of dust and calcium ions in the ice layers during cold periods: winds were strong, causing calcium-rich dust from loess deposits, which are composed of loose surface sediment, to blow across the ice sheet. Thus, differing amounts of dust in the layers also indicate changing climatic conditions.

However, finds from the lower section of GISP 2 do not confirm those of GRIP. The wild climate swings shown by GRIP in the last interglacial are not seen in the GISP2 core. According to a GISP 2 scientist, the weight of flowing glacial ice above has stressed the lower sections of both cores. This may have deformed the lower ice, disrupting its annual layers and thereby causing the discrepancy between the records. Still, some climatologists believe GRIP's record may be the more reliable of the two. It was drilled closer to a location called the ice divide, where stresses would have been lower, they say.

1. The passage is primarily concerned with
  - A. refuting certain scientific theories about Earth's climatic history
  - B. outlining new findings concerning Earth's climate during ice ages
  - C. discussing new research that may challenge a long-held scientific assumption about Earth's climatic history
  - D. describing the climatic changes that occurred when Earth moved from an ice age into an interglacial period
  - E. reconciling conflicting evidence concerning climatic changes.
2. Which of the following describes research that is most clearly analogous to the testing done by GRIP scientists?
  - A. Scientists studying the formation of the Sahara desert measure the rate of topsoil erosion in the region
  - B. Scientists seeking to determine the age of a particular fossil measure the percentage of its carbon atoms that have decayed
  - C. Scientists researching vision in flies measure and compare the amounts of vitamin A found in the retinas of several fly species.
  - D. Scientists investigating the development of life on Earth measure and compare the amount of oxygen used by various organisms along the evolutionary scale.
  - E. Scientists plotting the fluctuations in rainfall in the early rain forests measure the presence of certain gases trapped in tree rings of older trees.
3. According to the passage, which of the following is the most accurate statement of what scientists believed, prior to the GRIP findings, about Earth's climate?
  - A. Over the course of Earth's history, interglacials have become progressively milder
  - B. Earth's overall climate has been generally mild since the planet's formation
  - C. During both interglacials and ice ages, Earth's climate has fluctuated violently.
  - D. During ice ages, Earth's climate has been highly variable, whereas during interglacials it has been mild and stable.
  - E. During interglacials, Earth's climate has been highly variable, whereas during ice ages it has

been uniformly cold and icy.

4. The passage suggests that which of the following is most likely to have been true of the oxygen-16 and oxygen-18 isotopes found in the lower sections of the GRIP core?

- A. There was significantly more isotope oxygen-18 than isotope oxygen-16 in the ice layers.
- B. There was significantly more isotope oxygen-16 than isotope oxygen-18 in the ice layers.
- C. Ratios of isotopes oxygen-18 and oxygen-16 varied in the ice layers.
- D. Layers containing isotope oxygen-18 placed stress on the layers containing isotope oxygen-16, possibly distorting them.
- E. Isotope oxygen-16, being lighter, was located mainly in the upper layers, whereas oxygen-18 had settled into the lower layers.

### Passage 92

Despite winning several prestigious literary awards of the day, when it first appeared, Alice Walker's *The Color Purple* generated critical unease over puzzling aspects of its compositions. In what, as one reviewer put it, was "clearly intended to be a realistic novel," many reviewers perceived violations of the conventions of the realistic novel form, pointing out variously that late in the book, the narrator protagonist Celie and her friends are propelled toward a happy ending with more velocity than credibility, that the letters from Nettie to her sister Celie intrude into the middle of the main action with little motivation or warrant, and that the device of Celie's letters to God is especially unrealistic inasmuch as it forgoes the concretizing details that traditionally have given the epistolary novel (that is, a novel composed of letters) its peculiar verisimilitude: the ruses to enable mailing letters, the cache, and especially the letters received in return.

Indeed, the violations of realistic convention are so flagrant that they might well call into question whether *The Color of Purple* is indeed intended to be a realistic novel, especially since there are indications that at least some of those aspects of the novel regarded by viewers as puzzling may constitutes its links to modes of writing other than Anglo-European nineteenth-century realism. For example, Henry Louis Gates, Jr., has recently located the letters to God within an African American tradition deriving from slave narrative, a tradition in which the act of writing is linked to a powerful deity who "speaks" through scripture and bestows literacy as an act of grace. For Gates, the concern with finding a voice, which he sees as the defining feature of African American literature, links Celie's letters with certain narrative aspects of Zora Neale Hurston's 1937 novel *Their Eyes Were Watching God*, the acknowledged predecessor of *The Color Purple*.

Gates's paradigm suggests how misleading it may be to assume that mainstream realist criteria are appropriate for evaluating *The Color Purple*. But in his preoccupation with voice as a primary element unifying both the speaking subject and the text as a whole Gates does not elucidate many of the more conventional structural features of Walker's novel. For instance, while the letters from Nettie clearly illustrate Nettie's acquisition of her own voice, Gates's focus on "voice" sheds little light on the *place* that these letters occupy in the narrative or on why the plot takes this sudden jump into geographically and culturally removed surroundings. What is needed is an evaluative paradigm that, rather than obscuring such startling structural

features (which may actually be explicitly intended to undermine traditional Anglo-European novelistic conventions), confronts them, thus illuminating the deliberately provocative ways in which *The Color Purple* departs from the traditional models to which it has been compared.

1. The author of the passage would be most likely to agree with which of the following statements about the letters from Nettie to Celie?

- A. They mark an unintended shift to geographically and culturally removed surroundings
- B. They may represent a conscious attempt to undermine certain novelistic conventions
- C. They are more closely connected to the main action of the novel than is at first apparent
- D. They owe more to the tradition of the slave narrative than do Celie's letters to God
- E. They illustrate the traditional concretizing details of the epistolary novel form

2. In the second paragraph, the author of the passage is primarily concerned with

- A. examining the ways in which *The Color Purple* echoes its acknowledged predecessor, *Their Eyes Were Watching God*
- B. providing an example of a critic who has adequately addressed the structural features of *The Color Purple*
- C. suggesting that literary models other than the nineteenth-century realistic novel may inform our understanding of *The Color Purple*
- D. demonstrating the ineffectiveness of a particularly scholarly attempt to suggest an alternative way of evaluating *The Color Purple*
- E. disputing the perceived notion that *The Color Purple* departs from conventions of the realistic novel form

3. According to the passage, an evaluative paradigm that confronts the startling structural features of *The Color Purple* would accomplish which of the following?

- A. It would adequately explain why many reviewers of this novel have discerned its connections to the realistic novel tradition
- B. It would show the ways in which this novel differs from its reputed Anglo-European nineteenth-century models
- C. It would explicate the overarching role of voice in this novel
- D. It would address the ways in which this novel echoes the central themes of Hurston's *Their Eyes Are Watching God*
- E. It would reveals ways in which these structural features serve to parody novelistic conventions

4. The author of the passage suggests that Gates is most like the reviewers mentioned in the first paragraph in which of the following ways?

- A. He points out discrepancies between *The Color Purple* and other traditional epistolary novels
- B. He sees the concern with finding a voice as central to both *The Color Purple* and *Their Eyes Are Watching God*
- C. He assumes that *The Color Purple* is intended to be a novel primarily in the tradition of Anglo-American nineteenth-century realism



- D. He does not address many of the unsettling structural features of *The Color Purple*
- E. He recognizes the departure of *The Color Purple* from traditional Anglo-European realistic novel conventions.

## Passage 93

**“Blues is for singing,” writes folk musicologist Paul Oliver, and “is not a form of folk song that stands up particularly well when written down.”** A poet who wants to write blues can attempt to avoid this problem by poeticizing the form—but literary blues tend to read like bad poetry rather than like refined folk song. For Oliver, the true spirit of the blues inevitably eludes the self-conscious imitator. However, Langston Hughes, the first writer to grapple with these difficulties of blue poetry, in fact succeeded in producing poems that capture the quality of genuine, performed blues while remaining effective as poems. In inventing blues poetry, Hughes solved two problems: first, how to write blues lyrics in such a way that they work on the printed page, and second, how to exploit the blues form poetically without losing all sense of authenticity.

There are many styles of blues, but the distinction of importance to Hughes is between the genres referred to as “folk blues” and “classic blues.” Folk blues and classic blues are distinguished from one another by differences in performers (local talents versus touring professionals), patronage (local community versus mass audience), creation (improvised versus composed), and transmission (oral versus written). It has been a commonplace among critics that Hughes adopted the classic blues as the primary model for his blues poetry, and that he writes his best blues poetry when he tries least to imitate the folk blues. In this view, Hughes’ attempts to imitate the folk blues are too self-conscious, too determined to romanticize the African American experience, too intent on reproducing what he takes to be the quaint humor and naïve simplicity of the folk blues to be successful.

But a more realistic view is that by conveying his perceptions as a folk artist ought to—through an accumulation of details over the span of his blues oeuvre, rather than by overloading each poem with quaintness and naivety—Hughes made his most important contributions to the genre. His blues poems are in fact closer stylistically to the folk blues on which he modeled them than to the cultivated classic blues. Arnold Rampersad has observed that virtually all of the poems in the 1927 collection in which Hughes essentially originated blues poetry fall deliberately within the “range of utterance” of common folk. This surely applies to “Young Gal’s Blues,” in which Hughes avoids the conventionally “poetic” language and images that the subjects of death and love sometimes elicit in his ordinary lyric poetry. To see what Hughes’ blues poetry might have been like if he had truly adopted the classic blues as his model, one need only look to “Golden Brown Blues,” a song lyric Hughes wrote for composer W.C. Handy. Its images, allusions, and diction are conspicuously remote from the common “range of utterance.”

1. The primary purpose of the passage is to
  - A. describe the influence of folk and classic blues on blues poetry
  - B. analyze the effect of African American culture on blues poetry
  - C. demonstrate that the language used in Hughes’ blues poetry is colloquial

- D. defend Hughes' blues poetry against criticism that it is derivative  
E. refute an accepted view of Hughes' blues poetry style
2. The author of the passage uses the highlighted quotation primarily to  
A. indicate how blues poetry should be performed  
B. highlight the difficulties faced by writers of blues poetry  
C. support the idea that blues poetry is a genre doomed to fail  
D. illustrate the obstacles that blues poetry is unable to overcome  
E. suggest that written forms of blues are less authentic than sung blues
3. It can be inferred from the passage that, as compared with the language of "Golden Brown Blues," the language of "Young Gal's Blues" is  
A. more colloquial  
B. more melodious  
C. marked by more allusions  
D. characterized by more conventional imagery  
E. more typical of classic blues song lyrics
4. According to the passage, Hughes' blues poetry and classic blues are similar in which of the following ways?  
A. Both are improvised  
B. Both are written down  
C. Both are intended for the same audience  
D. Neither uses colloquial language  
E. Neither is professionally performed

#### Passage 94

In February 1848 the people of Paris rose in revolt against the constitutional monarchy of Louis-Philippe. Despite the existence of excellent narrative accounts, the February Days, as this revolt is called, have been largely ignored by social historians of the past two decades. For each of the three other major insurrections in nineteenth-century Paris—July 1830, June 1848, and May 1871—there exists at least a sketch of participants' backgrounds and an analysis, more or less rigorous, of the reasons for the occurrence of the uprisings. Only in the case of the February Revolution do we lack a useful description of participants that might characterize it in the light of what social history has taught us about the process of revolutionary mobilization.

Two reasons for this relative neglect seem obvious. First, the insurrection of February has been overshadowed by that of June. The February Revolution overthrew a regime, to be sure, but met with so little resistance that it failed to generate any real sense of historical drama. Its successor, on the other hand, appeared to pit key socioeconomic groups in a life-or-death struggle and was widely seen by contemporary observers as marking a historical departure. Through their interpretations, which exert a continuing influence on our understanding of the revolutionary process, the impact of the events of June has been magnified, while, as an unintended consequence, the significance of the February insurrection has been diminished.

Second, like other “successful” insurrections, the events of February failed to generate the most desirable kinds of historical records. Although the June insurrection of 1848 and the Paris Commune of 1871 would be considered watersheds of nineteenth-century French history by any standard, they also present the social historian with a signal advantage: these failed insurrections created a mass of invaluable documentation as a by-product of authorities’ efforts to search out and punish the rebels.

Quite different is the outcome of successful insurrections like those of July 1830 and February 1848. Experiences are retold, but participants typically resume their daily routines without ever recording their activities. Those who played salient roles may become the objects of highly embellished verbal accounts or in rare cases, of celebratory articles in contemporary periodicals. And it is true that the publicly acknowledged leaders of an uprising frequently write memoirs. However, such documents are likely to be highly unreliable, unrepresentative, and unsystematically preserved, especially when compared to the detailed judicial dossiers prepared for everyone arrested following a failed insurrection.

As a consequence, it may prove difficult or impossible to establish for a successful revolution a comprehensive and trustworthy picture of those who participated, or to answer even the most basic questions one might pose concerning the social origins of the insurgents.

1. With which of the following statements regarding revolution would the author most likely agree?

- A. Revolutionary mobilization requires a great deal of planning by people representing disaffected groups.
- B. The objectives of the February Revolution were more radical than those of the June insurrection.
- C. The process of revolutionary mobilization varies greatly from one revolution to the next.
- D. Revolutions vary greatly in the usefulness of the historical records that they produce.
- E. As knowledge of the February Revolution increases, chances are good that its importance will eventually eclipse that of the June insurrection.

2. Which of the following is the most logical objection to the claim made in the last paragraph?

- A. The February Revolution of 1848 is much less significant than the July insurrection of 1830.
- B. The backgrounds and motivations of participants in the July insurrection of 1830 have been identified, however cursorily.
- C. Even less is known about the July insurrection of 1830 than about the February Revolution of 1848.
- D. Historical records made during the July insurrection of 1830 are less reliable than those made during the May insurrection of 1871.
- E. The importance of the July insurrection of 1830 has been magnified at the expense of the significance of the February Revolution of 1848.

3. The purpose of the second paragraph is to explain why

- A. the people of Paris revolted in February 1848 against the rule of Louis-Philippe
- B. there exist excellent narrative accounts of the February Days
- C. the February Revolution met with little resistance

- D. a useful description of the participants in the February Revolution is lacking
- E. the February Revolution failed to generate any real sense of historical drama

4. It can be inferred from the passage that the author considers which of the following essential for understanding a revolutionary mobilization?

- A. A comprehensive theory of revolution that can be applied to the major insurrections of the nineteenth century
- B. Awareness of the events necessary for a revolution to be successful
- C. Access to narratives and memoirs written by eyewitnesses of a given revolution
- D. The historical perspective provided by the passage of a considerable amount of time
- E. Knowledge of the socioeconomic backgrounds of a revolution's participants

### Passage 95

The history of the transmission of ancient Roman texts prior to invention of the printing press is reconstructed from evidence both internal and external to the texts themselves. Internal evidence is used to reconstruct the relationship of the surviving manuscripts of Roman text to one another, as represented in a modern *stemma codicum*: a diagram depicting the genealogical relationship of surviving manuscripts and those the stemma's editor believes existed at one time. Stemmata are scholars' only road maps to textual connections based on internal evidence, but they may paint a distorted picture of reality because they diagram the relationships of only those manuscripts known or inferred today. If surviving copies are few, the stemma perforce brings into proximity manuscripts that were widely separated in time and place of origin. Conversely, the stemma can also bestow a semblance of separation on manuscripts written within a few months of one another or in the same room.

One type of external evidence that may shed light on the transmission of Roman texts is the availability of a work in the Middle Age, when many classical texts were circulated. Too often, though, too much is inferred about a particular work's circulation in the Middle Ages from the number of manuscripts surviving today. When a work survives in a single manuscript copy, editors call the manuscript, rather glamorously, the "lone survivor"—implying that all its (presumably rare) companions were destroyed sometime early in the Middle Ages by pillaging barbarians. It is equally possible that the work survived far into the Middle Ages in numerous copies in monastic libraries but went unnoticed due to lack of interest. The number of extant manuscripts, however few, really does not allow scholars to infer how many ancient Latin manuscripts of a work survived to the ninth, the twelfth, or even the fifteenth century.

Quotations from a Roman text by a medieval author are another category of external evidence: but does the appearance of a rare word or grammatical construction—or even a short passage—really indicate a medieval author's firsthand knowledge of this or that ancient work, or does such usage instead derive from some intermediate source, such as a grammar book or a popular style manual? Medieval authors do quote extensively from ancient authors; while such quotations provide some evidence of the work's medieval circulation, as well as define its evolving fortunes and the various uses to which it was put, they may be far less useful in reconstructing the text of ancient work.

Much as scholars want to look for overall patterns and formulate useful generalizations,

the transmission of each text is different story and each manuscript's history is unique. Scholars must be careful not to draw conclusions that go beyond what evidence can support.

1. The passage is primarily concerned with which of the following?
  - A. Tracing certain changes in the methods used to study the transmission of ancient Roman texts.
  - B. Contrasting two type of evidence used in investigating the transmission of ancient Room texts.
  - C. Outlining certain difficulties associated with studying the transmission of ancient Room texts.
  - D. Advocating the use of one type of evidence about ancient Room texts over the use of another type.
  - E. Explaining the development and potential uses and drawback of stemmata in the study of ancient Room texts.
2. As described in the passage, a stemma is most closely analogous to which of the following?
  - A. A department store inventory list that excludes some departments.
  - B. A map from which a large section has been torn off.
  - C. A chronology that includes only major historical events.
  - D. A family tree in which some generations are not recorded
  - E. A government organizational chart from which some agencies are omitted.

Consider each of the choices separately and select all that apply

3. In its discussion of external evidence, the passage suggests which of the following about manuscripts of ancient Room texts during the Middle Ages?
  - A. It is possible that fewer manuscripts were destroyed by barbarians in the early Middle Ages than scholars frequently suppose.
  - B. Additional copies of some so-called lone survivor manuscripts may have existed well into the Middle Ages.
  - C. If an ancient Roman text is quoted in word by medieval author, it is likely that at least one manuscript copy of that text survived into the Middle Ages.
4. Click on the sentence in the first paragraph that suggests that scholars might be led to underestimate the extent of the connection between certain manuscripts.

#### Passage 96

In the late nineteenth century, art critics regarded seventeenth-century Dutch paintings as direct reflections of reality. The paintings were discussed as an index of the democracy of a society that chose to represent its class, action, and occupations exactly as they were; wide-ranging realism was seen as the great accomplishment of Dutch art. However, the achievement of more recent study of Dutch art has been the recovery of the fact that such paintings are to be taken as symbolizing mortality, the renaissance of earthly life, and the power of God, and as message that range from the mildly moralizing to the firmly didactic. How explicit and



consistent the symbolizing process was intended to be is a much thornier matter, but anyone who has more familiarity than a passing acquaintance with Dutch literature or with the kinds of images used in illustrated books (above all emblem books) will know how much less pervasive was the habit of investing ordinary objects than of investing scenes with meaning that go beyond their surface and outward appearance. In the mid-1960s, Eddy de Jongh published an extraordinary array of material—especially from the emblem books and vernacular literature—that confirmed the unreliability of taking Dutch pictures at surface value alone.

The major difficulty, however, with the findings of critics such as de Jongh is that it is not easy to assess the multiplicity of levels in which Dutch viewers interpreted these pictures. De Jongh's followers typically regard the pictures as purely symbolic. Not every object within Dutch paintings need be interpreted in terms of the gloss given to its equivalent representation in the emblem books. Not every foot warmer is to be interpreted in terms of the foot warmer in Rowmer Visscher's *Sinnepoppen* of 1614, not every **bridle** is an emblem of restraint (though many were indeed just that).

To maintain as Brown does, that the two children in Netscher's painting *A Lady Teaching a Child to Read* stand for industry and idleness is to fail to understand that the painting has a variety of possible meanings, even though the picture undoubtedly carries unmistakable symbolic meanings, too. Modern Art historians may well find the discovery of parallels between a painting and a specific emblem exciting; they may, like seventeenth-century viewers, search for the double that lie behind many paintings. But seventeenth-century response can hardly be reduced to the level of formula. To suggest otherwise is to imply a laboriousness of mental process that may well characterize modern interpretations of seventeenth-century Dutch Art, but that was, for the most part, not characteristic in the seventeenth century.

1. The passage is primarily concerned with which of the following?
  - A. Reconciling two different points of view about how art reflects
  - B. Criticizing a traditional method of interpretation
  - C. Tracing the development of an innovative scholarly approach
  - D. Describing and evaluating a recent critical approach
  - E. Describing a long-standing controversy and how it was resolved
2. The author of the passage mentions bridles in the highlighted portion of the passage most likely in order to
  - A. Suggest that restraint was only one of the many symbolic meanings attached to bridles
  - B. Provide an example of an everyday, physical object that was not endowed with symbolic meaning
  - C. Provide an example of an object that modern critics have endowed with symbolic meaning different from the meaning assigned it by seventeenth-century Dutch artists
  - D. Provide an example of an object with symbolic meaning that was not always used as a symbol
  - E. Provide an example of an everyday object that appears in a significant number of seventeenth century Dutch paintings

3. Which of the following best describes the function of the last paragraph of the passage?
- A. It provides specific applications of the critical approach introduced in the preceding paragraph
  - B. It present a caveat about the critical approach discussed in the preceding paragraph
  - C. It presents the research on which a theory presented in the preceding paragraph is based
  - D. It refutes a theory presented in the preceding paragraph and advocates a return to a more traditional approach
  - E. It provides further information about the unusual phenomenon described in the preceding paragraph
4. The passage suggests which of the following about emblem books in seventeenth-century Holland?
- A. They confirm that seventeenth century Dutch painting depict some objects and scenes rarely found in daily life.
  - B. They are more useful than vernacular literature in providing information about the symbolic content of seventeenth-century Dutch painting.
  - C. They have been misinterpreted by art critics, such as de Jongh, who claim seventeenth-century Dutch paintings contain symbolic meaning
  - D. They are not useful in interpreting seventeenth-century Dutch landscape painting.
  - E. They contain material that challenges the assumptions of the nineteenth-century critics about seventeenth-century Dutch painting.

#### Passage 97

Massive projectiles striking much larger bodies create various kinds of craters, including “multi-ring basins”—the largest geologic features observed on planets and moons. **In such collisions, the impactor is completely destroyed and its material is incorporated into the larger body.** Collisions between bodies of comparable size, on the other hand, have very different consequences: one or both bodies might be entirely smashed, with mass from one or both the bodies redistributed among new objects formed from the fragments. Such a titanic collision between Earth and a Mars-size impactor may have given rise to Earth’s Moon.

The Earth-moon system has always been perplexing. Earth is the only one of the inner planets with a large satellite, the orbit of which is neither in the equatorial plane of Earth nor in the plane in which the other planets lie. The Moon’s mean density is much lower than that of Earth but is about the same as that of Earth’s mantle. This similarity in density has long prompted speculation that the Moon split away from a rapidly rotating Earth, but this idea founders on two observations. In order to spin off the Moon, Earth would have had to rotate so fast that a day would have lasted less than three hours. Science offers no plausible explanation of how it could have slowed to its current rotational rate from that speed. Moreover, the Moon’s composition, though similar to that of Earth’s mantle, is not a precise match. Theorizing a titanic collision eliminates postulating a too-rapidly spinning Earth and accounts for the Moon’s peculiar composition. In a titanic collision model, the bulk of the Moon would have formed from a combination of material from the impactor and Earth’s mantle. Most of the earthly component would have been in the form of melted or vaporized matter. The difficulty in

recondensing this vapor in Earth's orbit, and its subsequent loss to the vacuum of outer space, might account for the observed absence in lunar rocks of certain readily vaporized **compounds and elements**.

Unusual features of some other planets might also be explained by such impacts. Mercury is known to have a high density in comparison with other rocky planets. A titanic impact could have stripped away a portion of its rocky mantle, leaving behind a metallic core whose density is out of proportion with the original ratio of rock to metal. A massive, glancing blow to Venus might have given it its anomalously slow spin and reversed direction of rotation. Such conjectures are tempting, but, since no early planet was immune to titanic impacts, they could be used indiscriminately to explain away in a cavalier fashion every unusual planetary characteristic. Still, we may now be beginning to discern the true role of titanic impacts in planetary history.

1. According to the passage, which of the following is true of the collisions mentioned in the highlighted sentence?

- A. They occur less frequently than do titanic collisions.
- B. They occur between bodies of comparable size.
- C. They occur primarily between planet-sized bodies.
- D. They result in the complete destruction of the impacting body.
- E. They result in mass being redistributed among newly formed objects.

2. The author of the passage asserts which of the following about titanic collision models?

- A. Such models are conclusive with respect to certain anomalies within the solar system, but leave numerous other anomalies unexplained.
- B. Such models are more likely than are earlier models to account for the formation of multi-ring basins.
- C. Such models may be particularly useful in explaining what happens when the impacting bodies involved are of highly dissimilar mean densities.
- D. Such models have been tested to such a degree that they are quickly reaching the point where they can be considered definitive.
- E. Such models are so tempting that they run the risk of being used indiscriminately to explain unusual planetary features.

3. The passage suggests that which of the following is true of the cited "compounds and elements"?

- A. They were created by reactions that took place during a titanic collision.
- B. They were supplied by an impactor that collided with Earth.
- C. They were once present on the Moon but were subsequently vaporized.
- D. They are rarely found on planet-size bodies in our solar system.
- E. They are present on Earth but not on the Moon.

4. In the second paragraph, the author is primarily concerned with

- A. arguing in favor of a particular theory about the formation of the Earth-Moon system.
- B. summarizing conventional theories about the formation of the Earth-Moon system.

- C. anticipating and responding to criticisms of particular theory about the formation of the Earth-Moon system.
- D. explaining why the Earth-Moon system is considered scientifically perplexing.
- E. questioning an assumption underlying one theory about the formation of the Earth-Moon system.

### Passage 98

In 1995 the Galileo spacecraft captured data about Jupiter's atmosphere—namely, the absence of most of the predicted atmospheric water—that challenged prevailing theories about Jupiter's structure. The unexpectedness of this finding fits a larger pattern in which theories about planetary composition and dynamics have failed to predict the realities discovered through space exploration. Instead of normal planets whose composition could be predicted by theory, the planets populating our solar system are unique individuals whose chemical and tectonic identities were created through numerous contingent events. One implication of this is that although the universe undoubtedly holds other planetary systems, the duplication of the sequence that produced our solar system and the development of life on Earth is highly unlikely.

Recently planetary scientists have suggested that the external preconditions for the development of Earth's biosphere probably included four paramount contingencies. First, a climate conducive to life on Earth depends upon the extraordinarily narrow orbital parameters that define a continuously habitable zone where water can exist in a liquid state. If Earth's orbit were only 5 percent smaller than it is, temperatures during the early stages of Earth's history would have been high enough to vaporize the oceans. If the Earth-Sun distance were as little as 1 percent larger, runaway glaciation on Earth about 2 billion years ago would have caused the oceans to freeze and remain frozen to this day.

Second, Jupiter's enormous mass prevents most Sun-bound comets from penetrating the inner solar system. It has been estimated that without this shield, Earth would have experienced bombardment by comet-sized impactors a thousand times more frequently than has actually been recorded during geological time. Even if Earth's surface were not actually sterilized by this bombardment, it is unlikely that any but the most primitive life-forms could have survived. This suggests that only planetary systems containing both terrestrial planets like Earth and gas giants like Jupiter might be capable of sustaining complex life-forms.

Third, the gravitational shield of the giant outer planets, while highly efficient, must occasionally fail to protect Earth. Paradoxically, while the temperatures required for liquid water exist only in the inner solar system, the key building blocks of life, including water itself, occur primarily beyond the asteroid belt. Thus the evolution of life has depended on a frequency of cometary impacts sufficient to convey water, as well as carbon and nitrogen, from these distant regions of the solar system to Earth while stopping short of an impact magnitude that would destroy the atmosphere and oceans.

Finally, Earth's unique and massive satellite, the Moon, plays a crucial role in stabilizing the obliquity of Earth's rotational axis; this obliquity creates the terrestrial seasonality so important to the evolution and diversity of life. Mars, in contrast, has a wildly oscillating tilt

and chaotic seasonality, while Venus, rotating slowly backward, has virtually no seasonality at all.

1. The passage is primarily concerned with
  - A. Enumerating conditions that may have been necessary for a particular development
  - B. Outlining the conditions under which scientists may be able to predict certain events
  - C. Explaining how a particular finding affected scientists understanding of a phenomenon
  - D. Suggesting reasons why a particular outcome was more likely to occur than other possible outcomes
  - E. Assessing the relative significance of factors that contributed to a particular occurrence
2. It can be inferred from the passage that the planetary scientists would be most likely to agree with which of the following statements concerning the development of complex life forms on Earth?
  - A. It might have occurred earlier in Earth's history if cometary impacts had been less frequent than they were.
  - B. It could have occurred if Earth's orbit were 1 percent larger than it is but not if Earth's orbit were 5 percent smaller
  - C. It probably follows a pattern common on other terrestrial planets that occupy planetary systems containing gas giants.
  - D. Its dependence on the effect that Jupiter's gravitational shield has on Earth was difficult to recognize prior to 1995.
  - E. It has been contingent on conditions elsewhere in Earth's solar system as well as on conditions on Earth itself.
3. The author of the passage most likely mentions Mars oscillating tilt primarily in order to
  - A. Provide evidence for a proposition about the potential effects of cometary impacts
  - B. Emphasize the absence from our solar system of normal planets
  - C. Contrast the rotational axis of Mars with that of Venus
  - D. Characterize the role of other planets in the solar system in Earth's development
  - E. Emphasize the importance of the Moon to the development of life on Earth
4. The passage suggests each of the following about water on Earth EXCEPT:
  - A. It was conveyed to Earth by comets
  - B. It appeared on Earth earlier than did carbon and nitrogen
  - C. Its existence in a liquid state is contingent on Earth's orbital parameters
  - D. Much of it came from a part of the solar system where water cannot exist in a liquid state
  - E. It is unlikely that there would be much of it available to support life if the gravitational shield of the outer planets did not limit the frequency with which comets strike Earth

#### Passage 99

Received feminist wisdom has conceived of history as a male enclave devoid of woman subjects and practitioners, particularly before the twentieth century. As Ann Forfreedom put it



in 1972, From Herodotus's to Will Durant's histories, the main characters, the main viewpoints and interests, have all been male. Feminist accounts of the 1970s and 1980s viewed historiography (the writing of history) as overwhelmingly his, coining the term herstory and presenting it as a compensatory feminist practice. Herstory designated women's place at the center of an alternative narrative of past events. Rosalind Miles's description restates the popular view: women's history by contrast has only just begun to invent itself. Males gained entry to the business of recording, defining and interpreting events in the third millennium B.C.; for women, this process did not even begin until the nineteenth century. The herstorical method provided a means for feminist historians to explore materials by and about women that had previously been neglected or ignored. Herstory promoted curricular transformation in schools and was used as a slogan on T-shirts, pencils, and buttons. Exposing historians' tacit and intentional sexism, herstorians set out to correct the record—to show that women had held up half the historical sky.

Despite the great scholarly gains made behind the rallying cry, herstory's popular myths—particularly about the lack of women who have recorded history—require revision. Herstory may accurately describe feminists' efforts to construct female-centered accounts of the past, but the term inadvertently blinds us to women's important contributions to historical discourse before the nineteenth century. Historiography has not been an entirely male preserve, though feminists are justified in faulting its long-standing masculine contours. In fact, criticism of historiography's sexism is not of recent origin. Early eighteenth-century feminist Mary Astell protested that the Men being the Historians, they seldom condescend to record the great and good Actions of Women. Astell, like those who echoed her sentiments two and a half centuries later, must be credited for admirable zeal in setting out to right scholarly wrongs, but her **supposition** that historians were only male is inaccurate. Her perception is especially strange because she herself wrote a historical work, *An Impartial Enquiry into the Cause of Rebellion and Civil War* (1704). Astell's judgment is at the same time understandable, given that much historical writing by women of the late seventeenth century was not published until the nineteenth century. Despite their courage and their rightful anger, Astell and her descendants overlooked early modern woman writers' contributions to historiography.

1. It can be inferred that Rosalind Miles refers to the third millennium B.C. primarily in order to
  - A. Present an overview of what the practice of history once entailed
  - B. Suggest that the origins of historical study are much earlier than had been previously though
  - C. Suggest why the third millennium B.C. has received so much attention from historians
  - D. Establish a contrast between men and women in terms of how long they have been recording history
  - E. Indicate how significantly the practice of history has changed since the third millennium B.C.

2. It can be inferred from the passage that the term herstory
  - A. Was popular mainly in the nineteenth century

- B. Is an old term that feminist put to new uses
  - C. Is controversial within the feminist community
  - D. Is not especially useful to scholars
  - E. Was invented to help make a particular point
3. Mary Astell is discussed by the author as an example of an eighteenth-century feminist historian
- A. Who was representative of the intellectual interests of the woman historians of her time
  - B. Who inspired many practitioners of herstory in the twentieth century
  - C. Who shared with modern herstorians a mistaken assumption regarding the writing of history
  - D. Whose major work aroused much controversy at the time of its publication
  - E. Whose major work still has not received the attention from scholars that it deserves
4. The author implies which of the following about Astell's supposition?
- A. It is likely to have arisen because of Astell's unawareness of much of the historical work written by women.
  - B. It was one that Astell reconsidered after she wrote her own historical work.
  - C. It was one that was not shared by other feminist historians of Astell's time.
  - D. It was one that inspired Astell to write her own historical work.
  - E. It directly contradicts one of the basic claims of herstory.

#### Passage 100

A primary value in early twentieth-century Modernist architectural theory was that of “truth to materials,” that is, it was essential that a building's design express the “natural” character of the building materials. This emphasis would have puzzled the architects of the Italian Renaissance (sixteenth century), a period widely regarded as the apex of architectural achievement, for Renaissance architects' designs were determined only minimally by the materials employed. The diversity of Italy's natural resources provided Renaissance architects with a wide variety of building materials. The builders of the Pitti Palace (1558 – 1570) used great blocks of Tuscan stone, just as Etruscans living in the same part of Italy had done some twenty centuries earlier. Had the Florentine Renaissance builders aped the Etruscan style, it might be said that their materials determined their style, since Etruscan style matched the massive, stark, solid character of the stone. But these same materials, which so suited the Etruscan style, were effectively used by the Florentine Renaissance to create the most delicate and graceful styles.

A similar example of identical materials used in contrasting styles characterizes the treatment of Roman travertine marble. When Baroque architects of seventeenth-century Rome desired a massive and solid monumental effect, they turned to travertine marble, whose “natural effect” is, indeed, that of spacious breadth and lofty, smoothly rounded surfaces. Yet during the Renaissance, this same material had been used against its “nature,” in the Florentine tradition of sharply carved detail. Italian Renaissance architecture was shaped less by the “nature” of the materials at hand than by the artistic milieu of Renaissance Italy, which

included painting and sculpture as well as architecture. While Roman travertine marble may have lent itself to fine carving, the Florentine passion for fine detail is no less marked in Florentine Renaissance painting than in Florentine Renaissance architecture. Similarly, in the next century, the emphasis on shading and corporeal density in Baroque painting mirrored the use of Roman travertine marble in Baroque architecture to create broad shadow and powerful masses.

The ingenuity of Renaissance architects extended beyond merely using a material in a way not suggested by its outward natural appearance. If they conceived a design that called for a certain material either too expensive or difficult to work with, they made no scruple about imitating that material. Their marbles and their stones are often actually painted stucco. When the blocks of masonry with which they built were not in scale with the projected scheme, the real joints were concealed and false ones introduced. Nor were these practices confined, as **some scholars** insist, to the latter and supposedly decadent phases of the art. Material, then, was utterly subservient to style.

1. The passage is primarily concerned with
  - A. explaining the differences in quality among different kinds of building materials
  - B. discussing the differences among Etruscan, Florentine Renaissance, and Roman Baroque architecture
  - C. describing how different materials influenced architecture in different cities
  - D. describing the manner in which Renaissance architects often resorted to artificial materials and illusionistic effects
  - E. demonstrating the attitude of sixteenth- and seventeenth-century Italian architects toward the use of building materials
2. It can be inferred from the passage that the author believes that which of the following is true of painting and architecture of the Baroque era?
  - A. Both emphasize the “natural” use of materials
  - B. Both are derived from the Florentine Renaissance style
  - C. Both have been overlooked by twentieth-century Modernists.
  - D. They have certain visual features in common
  - E. They illustrate the degeneration of a style
3. The author’s mention of Florentine painting serves in the context of the passage to support which of the following assertions?
  - A. The constraints that operate in architecture are different from those that operate in painting.
  - B. Florentine architectural style was not determined by the nature of the available marble.
  - C. The Florentine Renaissance period was a period in which the other arts achieved the same distinction as did architecture.
  - D. Technical advances in all of the arts of the Florentine Renaissance determined the stylistic qualities of those arts.
  - E. Native preferences of style do not manifest themselves in the same ways in different arts

4. The passage suggests which of the following about the cited “scholars?”
- A. They believe that a decadent phase is characteristic of any significant artistic movement.
  - B. They reject the popular view of the Renaissance as the apex of architectural achievement.
  - C. They believe that a vigorous and healthy architecture would not usually employ false surfaces or imitation building materials.
  - D. They represent the mainstream in critical and historical thought about the Florentine Renaissance
  - E. They have focused on such technical matters as the cost of building materials rather than on artistic concerns

### Passage 101

Architectural morphology is the study of how shifting cultural and environmental conditions produce changes in an architectural form. When applied to the mission churches of New Mexico exemplifying seventeenth- and eighteenth-century Spanish colonial architecture in what is now the southwestern United States, architectural morphology reveals much about how Native American culture transformed the traditional European church architecture of the Spanish missionaries who hoped to convert Native Americans to Christianity.

Many studies of these mission churches have carefully documented the history and design of their unique architectural form. Most attribute the churches’ radical departure from their sixteenth-century European predecessors to local climate and a less-mechanized building technology. Certainly, the limitations imposed by manual labor and the locally available materials of mud-brick and timber necessitated a divergence from the original European church model. However, the emergence of a church form suited to life in the Southwest was rooted in something more fundamental than material and technique. The new architecture resulted from cultural forces in both the Spanish colonial and indigenous Native American societies, each with competing ideas about form and space and different ways of conveying these ideas symbolically.

For example, the mission churches share certain spatial qualities with the indigenous kiva, a round, partly subterranean room used by many Southwest Native American communities for important rituals. Like the kiva it was intended to replace, the typical mission church had thick walls of adobe (sun-dried earth and straw), a beaten-earth floor, and one or two small windows. In deference to European custom, the ceilings of these churches were higher than those of traditional kiva. However, with the limited lighting afforded by their few small windows, these churches still suggest the kiva’s characteristically low, boxlike, earth-hugging interior. Thus, although pragmatic factors of construction may have contributed to the shaping of mission churches, as earlier studies suggest, the provision of a sacred place consistent with indigenous traditions may also have been an important consideration in their design.

The continued viability of the kiva itself in Spanish mission settlements has also been underestimated by historians. Freestanding kivas discovered in the ruins of European-style missionary communities have been explained by **some historians** as examples of “superstition.” Under this theory, Christian domination over indigenous faiths is dramatized by surrounding the kiva with Christian buildings. However, as James Ivey points out, such

superstition was unlikely, since historical records indicate that most Spanish missionaries, arriving the Southwest with little or no military support, wisely adopted a somewhat conciliatory attitude toward the use of the kiva at least initially. This fact, and the careful, solitary placement of the kiva in the center of the mission-complex courtyards, suggests an intention to highlight the importance of the kiva rather than to diminish it.

1. The primary purpose of the passage is to
  - A. correct some misinterpretations about the development of an architectural form
  - B. compare the traditional church architectures of two different cultures
  - C. examine the influence of a religious architectural style on secular buildings
  - D. explain the nature of the contrast between two different architectural styles
  - E. trace the European roots of an architectural style used in the United States
2. The passage suggests that the indicated historians regarded the placement of kivas in the midst of Christian buildings as which of the following?
  - A. exemplary of an arrangement of religious buildings typical of a kind of Native American architecture common prior to the arrival of the Spanish
  - B. largely responsible for the evolution of a distinctive Spanish mission architectural style
  - C. indicative of the Spanish missionaries' desire to play an attitude of acceptance toward the kiva
  - D. symbolic of the controversy among Spanish missionaries in New Mexico regarding their treatment of the indigenous population
  - E. reflective of the Spanish missionaries' desire to diminish the kiva's importance
3. Which of the following, if true, would most strengthen the argument about the Spanish missionaries' attitude toward the kiva?
  - A. The period of the most intensive settlement by Spanish missionaries in the Southwest occurred before the period in which the mission churches of New Mexico were built.
  - B. There are no traces of kivas in Spanish mission settlements that were protected by a large military presence.
  - C. Little of the secular Spanish colonial architecture of the Southwest of the seventeenth and eighteenth centuries is predominantly European in style.
  - D. Some Spanish missionary communities of the seventeenth and eighteenth centuries were attached to Spanish military installations
  - E. New Mexico contains by far the largest concentration of Spanish mission-style church architecture in the United States
4. According to the passage, the building techniques prevailing in the Southwest during the seventeenth and eighteenth centuries played a role in which of the following?
  - A. preventing missionaries in the Southwest from duplicating traditional European churches
  - B. influencing missionaries in the Southwest to incorporate a freestanding kiva into certain mission settlements
  - C. Causing missionaries in the Southwest to limit the building of churches to New Mexico only



- D. Jeopardizing the viability of Spanish religious settlements throughout the Southwest
- E. Encouraging many missionaries in the Southwest to reexamine the continued viability of a highly ceremonial European religious tradition

### Passage 102

By far the most popular United States literature of its time was a body of now-neglected novels written between 1820 and 1870 by, for, and about women. According to Nina Baym, who has termed this genre “woman’s fiction,” the massive popularity of these novels claimed a place for women in the writing profession. The novels chronicle the experiences of women who, beset with hardships, find within themselves qualities of intelligence, will, resourcefulness, and courage sufficient to overcome their obstacles. According to Baym, the genre began with Catharine Sedgewick’s *New England Tale* (1822), manifested itself as the best-selling reading matter of the American public in the unprecedented sales of Susan Warner’s *Wide, Wide World* (1850), and remained a dominant fictional type until after 1870. The critical, as opposed to popular, reception of these novels in their own times was mixed. Theoretical opposition by those who saw fiction as a demoralizing and corrupting influence was by no means dead in mid-nineteenth-century America, and popular successes naturally bore a significant proportion of the attack. The moralistic tone of much woman’s fiction did not placate these antagonists; on the contrary, many clerical opponents of the novel thought that women were trying to take over the clergy’s functions and hence attacked all the more fiercely. Similarly, some male authors, disgruntled by the emergence of great numbers of women writers, expressed contempt for the genre.

On the other hand, the women had a powerfully ally—their publishers, who not only put these works into print but advertised them widely and enthusiastically. Some few reviewers wrote about these works with attention and respect, distinguishing between the works of the different authors and identifying individual strengths and weaknesses. These approving contemporary critics were particularly alert to each writer’s contribution to the depiction of American social life, especially to regional differences in manners and character types. On the whole, however, even these laudatory critics showed themselves uninterested in the stories that this fiction told, or in their significance.

Baym acknowledges that these novels are telling—with variations—a single familiar tale, and correctly notes that this apparent lack of artistic innovation has been partly responsible for their author’s exclusion from the canon of classic American writers traditionally studied in university literature courses. Baym points out, however, that unlike such male contemporaries as Nathaniel Hawthorne, these women did not conceive of themselves as “artists”, but rather as professional writers with work to do and a living to be made from fulfilling an obligation to their audience. This obligation included both entertainment and instruction, which are not, says Baym, at odds with one another in these books, nor is entertainment the sweet coating on a didactic pill. Rather, the lesson itself is an entertainment: the central character’s triumph over adversity is profoundly pleasurable to those readers who identify with her.

1. The passage is primarily concerned with
- A. Summarizing the major contributions of two influential writers

- B. Describing and commenting on a group of literary works
  - C. Summarizing the major events of a period of literary history
  - D. Contrasting two types of literary works from the same era
  - E. Arguing for the adopting of several neglected literary works into university curriculums
2. The author of the passage cites Susan Warner's *Wide, Wide World* most probably as an example of a woman's novel that
- A. Had more advanced artistic elements than many of its type
  - B. Attracted an excessive amount of critical attention
  - C. Was found to be inappropriately moralistic by many members of the clergy
  - D. Was significant as an indicator of the genre's popularity
  - E. Signaled the gradual decline of the size of the genre's audience
3. The author of the passage implies which of the following about the members of the clergy mentioned in the first paragraph?
- A. They also opposed works of fiction that were outside the genre of woman's fiction
  - B. They opposed journalism as well as imaginative writing
  - C. Their influence reached its pinnacle in the mid-nineteen-century
  - D. They were unable to obtain the support of other critics for their views
  - E. Their attacks on the genre of the novel did not extend to novels written by male writers.
4. Which of the following can be inferred from the passage concerning the majority of the nineteen-century reviewers of woman's fiction?
- A. They considered the position taken by the clergy in regard to woman's fiction self-serving
  - B. They did not make fine distinctions between different authors
  - C. They placed a higher value on plot than on social significance
  - D. They subscribed to the view of writers as purveyors of popular entertainment rather than as artists.
  - E. They lacked interest in the plot and in the significance of the woman's fiction.

### Passage 103

The *Fourteenth Amendment* to the United States Constitution, ratified in 1868, prohibits state governments from denying citizens the “equal protection of the laws.” Although precisely what the framers of the amendment meant by this equal protection clause remains unclear, all interpreters agree that the framers’ immediate objective was to provide a constitutional warrant for the *Civil Rights Act* of 1866, which guaranteed the citizenship of all persons born in the United States and subject to United States jurisdiction. This declaration, which was echoed in the text of the *Fourteenth Amendment*, was designed primarily to counter the Supreme Court’s ruling in *Dred Scott v. Sandford* that Black people in the United States could be denied citizenship. The act was vetoed by President Andrew Johnson, who argued that the *Thirteenth Amendment*, which abolished slavery, did not provide Congress with the authority to extend citizenship and equal protection to the freed slaves. Although Congress promptly overrode Johnson’s veto, supporters of the act sought to ensure its constitutional foundations with the

passage of the *Fourteenth Amendment*.

The broad language of the amendment strongly suggests that its framers were proposing to write into the Constitution not a laundry list of specific civil rights but a principle of equal citizenship that forbids organized society from treating any individual as a member of an inferior class. Yet for the first eight decades of the amendment's existence, the Supreme Court's interpretation of the amendment betrayed this ideal of equality. In the *Civil Rights Cases* of 1883, for example, the Court invented the "state action" limitation, which asserts that "private" decisions by owners of public accommodations and other commercial businesses to segregate their facilities are insulated from the reach of the *Fourteenth Amendment's* guarantee of equal protection under the law.

After the Second World War, a judicial climate more hospitable to equal protection claims culminated in the Supreme Court's ruling in *Brown v. Board of Education* that racially segregated schools violated the equal protection clause of the *Fourteenth Amendment*. Two doctrines embraced by the Supreme Court during this period extended the amendment's reach. First, the Court required especially strict scrutiny of legislation that employed a "suspect classification," meaning discrimination against a group on grounds that could be construed as racial. This doctrine has broadened the application of the *Fourteenth Amendment* to other, nonracial forms of discrimination, for while some justices have refused to find any legislative classification other than race to be constitutionally disfavored, most have been receptive to arguments that at least some nonracial discriminations, sexual discrimination in particular, are "suspect" and deserve this heightened scrutiny by the courts. Second, the Court relaxed the state action limitation on the *Fourteenth Amendment*, bringing new forms of private conduct within the amendment's reach.

1. Which of the following best describes the main idea of the passage?

- A. By presenting a list of specific rights, framers of the *Fourteenth Amendment* were attempting to provide a constitutional basis for broad judicial protection of the principle of equal citizenship.
- B. Only after the Supreme Court adopted the suspect classification approach to reviewing potentially discriminatory legislation was the applicability of the *Fourteenth Amendment* extended to include sexual discrimination.
- C. Not until after the Second World War did the Supreme Court begin to interpret the *Fourteenth Amendment* in a manner consistent with the principle of equal citizenship that it expresses.
- D. Interpreters of the *Fourteenth Amendment* have yet to reach consensus with regard to what its framers meant by the equal protection clause.
- E. Although the reluctance of judges to extend the reach of the *Fourteenth Amendment* to nonracial discrimination has betrayed the principle of equal citizenship, the Supreme Court's use of the state action limitation to insulate private activity from the amendment's reach has been more harmful.

2. The passage suggests that the principal effect of the state action limitation was to

- A. allow some discriminatory practices to continue unimpeded by the *Fourteenth Amendment*
- B. influence the Supreme Court's ruling in *Brown v. Board of Education*

- C. provide expanded guidelines describing prohibited actions
- D. prohibit states from enacting laws that violated the intent of the *Civil Rights Act* of 1866
- E. shift to state governments the responsibility for enforcement of laws prohibiting discriminatory practices

3. The author's position regarding the intent of the framers of the *Fourteenth Amendment* would be most seriously undermined if which of the following were true?

- A. The framers had anticipated state action limitations as they are described in the passage.
- B. The framers had merely sought to prevent discriminatory acts by federal officials.
- C. The framers were concerned that the *Civil Rights Act* of 1866 would be overturned by the Supreme Court.
- D. The framers were aware that the phrase "equal protection of the laws" had broad implications.
- E. The framers believed that racial as well as non-racial forms of discrimination were unacceptable.

4. According to the passage, the original proponents of the *Fourteenth Amendment* were primarily concerned with

- A. detailing the rights afforded by the principle of equal citizenship
- B. providing support in the Constitution for equal protection for all citizens of the United States
- C. closing a loophole that could be used to deny individuals the right to sue for enforcement of their civil rights
- D. asserting that the civil rights protected by the Constitution included nonracial discrimination as well as racial discrimination
- E. granting state governments broader discretion in interpreting the *Civil Rights Act* of 1866

5. The author implies that the *Fourteenth Amendment* might not have been enacted if

- A. Congress' authority with regard to legislating civil rights had not been challenged
- B. the framers had anticipated the Supreme Court's ruling in *Brown v. Board of Education*
- C. the framers had believed that it would be used in deciding cases of discrimination involving non-racial groups
- D. most state governments had been willing to protect citizens' civil rights
- E. its essential elements had not been implicit in the Thirteenth Amendment

6. According to the passage, which of the following most accurately indicates the sequence of the events listed below?

- I. *Civil Rights Act* of 1866
- II. *Dred Scott v. Sandford*
- III. *Fourteenth Amendment*
- IV. Veto by President Johnson

- A. I, II, III, IV
- B. I, IV, II, III
- C. I, IV, III, II
- D. II, I, IV, III

E. III, II, I, IV

7. Which of the following can be inferred about the second of the two doctrines referred to in lines 39-41 of the passage?

- A. It caused some justices to rule that all types of discrimination are prohibited by the Constitution.
- B. It shifted the focus of the Supreme Court from racial to nonracial discrimination.
- C. It narrowed the concern of the Supreme Court to legislation that employed a suspect classification.
- D. It caused legislators who were writing new legislation to reject language that could be construed as permitting racial discrimination.
- E. It made it more difficult for commercial businesses to practice racial discrimination.



## Passage 104

Columnist: Until very recently, Presorbin and Veltrex, two medications used to block excess stomach acid, were both available only with a prescription written by a doctor. In an advertisement for Presorbin, its makers argue that **Presorbin is superior** on the grounds that doctors have written 200 million prescriptions for Presorbin, as compared to 100 million for Veltrex. It can be argued that the number of prescriptions written is never a worthwhile criterion for comparing the merits of medicines, but that **the advertisement's argument is absurd** is quite adequately revealed by observing that Presorbin was available as a prescription medicine years before Veltrex was.

In the columnist's argument, **the two highlighted portions** play which of the following roles?

- A. The first is a claim that the columnist's argument seeks to clarify; the second states a conclusion drawn about one possible interpretation of that claim.
- B. The first identifies the conclusion of an argument that the columnist's argument is directed against; the second states the main conclusion of the columnist's argument.
- C. The first states the main conclusion of the columnist's argument; the second states a conclusion that the columnist draws in defending that conclusion against an objection.
- D. The first identifies an assumption made in an argument that the columnist's argument is directed against; the second states the main conclusion of the columnist's argument.
- E. The first is a claim that has been offered as evidence to support a position that the columnist opposes; the second states the main conclusion of the columnist's argument.

## Passage 105

Stylistic evidence and laboratory evidence strongly support the claim that the magnificent painting *Garden of Eden* is a work of the Flemish master van Eyck. Nevertheless, **the painting must have been the work of someone else**, as anyone with a little historical and zoological knowledge can tell merely by looking at the painting. **The animals in the painting are all vivid representations of actual animals, including armadillos.** Yet armadillos are native only to Americas, and van Eyck died decades before Europeans reached the Americas.

In the argument given, the two highlighted portions play which of the following roles?

- A. The first is a position that the argument seeks to reject, the second is evidence that the argument uses against that position.
- B. The first and the second are each pieces of evidence that have been used to support the position that the argument opposes.

- C. The first presents the main conclusion of the argument; the second provides evidence in support of that conclusion.
- D. The first is a judgment that serves as the basis for the main conclusion of the argument; the second states that main conclusion.
- E. The first is an intermediate conclusion drawn in order to support a further conclusion stated in the argument; the second provides evidence in support of that intermediate conclusion.

## Passage 106

In most coastal regions, the level of the sea is rising in relation to the land by one to two millimeters a year, and this trend would be explained by the hypothesis that at the North and South Poles, the amount of ice that melts during the summer now exceeds the amount forms during the winter. The hypothesis is not undermined by observations that **sea levels are falling relative to the Scandinavian coast by four millimeters a year**. Much land in northern latitudes, including Scandinavia, is still rising in response to being freed of the enormous weight of the ice that used to cover it during the last ice age, and **in Scandinavia the land is now rising faster than the sea**.

In the passage, the two highlighted portions play which of the following roles?

- A. The first states observations the accuracy of which is challenged in the passage; the second is part of the ground on which that challenge is based.
- B. The first states observations that, according to the passage, are incompatible with a certain hypothesis; the second is part of the grounds offered in support of a revision of that hypothesis.
- C. The first states observations that, according to the passage, can be reconciled with a certain hypothesis; the second describes a phenomenon that is the factual basis of that reconciliation.
- D. The first presents a phenomenon, two competing explanations of which are considered in the passage; the second is the explanation of the phenomenon that the passage argues is correct.
- E. The first provides evidence against a position; the second is that position.

## Passage 107

In the country of Seligia, where asbestos have been used extensively in construction, that use is about to be banned, because the exposure of construction workers to asbestos can cause a certain type of cancer. We can predict that **the ban will result in reducing the incidence of that type of cancer in Seligia by as much as 50 percent**.

It is true that **no more than 30 percent of the death certificates of Seligians who have died of that cancer have “constructions” listed as the deceased’s occupation**. The cancer takes about 2- years after exposure to develop, however, and Seligians who have worked in construction commonly turn to less strenuous occupations as they age. Slogan death certificates indicate only the deceased’s last occupation.

In the argument given, the two highlighted portions play which of the following roles?

- A. the first is a prediction that the argument seeks to defend; the second presents evidence that

if not supplemented would cast doubt on that judgment.

B. the first is a prediction that the argument seeks to defend; the second is a finding, the accuracy of which is disputed by the argument as a whole.

C. the first is a prediction that the argument as a whole rejects; the second presents evidence on which that rejection is based.

D. the first is a prediction that the argument as a whole seeks to defend; the second is evidence that the defense can be at best partly successful.

E. the first is a prediction that is cited in order to justify a stated conclusion; the second is a consideration that has been raised against that conclusion.

### Passage 108

**Cuts that need to be held closed in order to heal properly have generally been held closed with stitches.** However, pressure to reduce medical costs is mounting. Consequently, it is likely that a newly developed adhesive will become the routine method of holding most types of cuts closed. The new adhesive holds most types of cuts closed as well as stitches do, and the cost of applying it is comparable to that of closing cuts with stitches. But whereas stitches must generally be removed by medical personnel after the cut has healed, the adhesive simply wears off. **Thus, for any cut that the adhesive can hold closed as well as stitches can, it is more economical to use the adhesive.**

In the argument given, the two highlighted portions play which of the following roles?

A. The first is a claim that the argument disputes; the second provides evidence against that disputed claim.

B. The first is a claim that is used as supporting evidence for the main conclusion of the argument; the second is that main conclusion.

C. The first is a claim that is used as supporting evidence for the main conclusion of the argument; the second is a conclusion that is drawn in order to support that main conclusion.

D. The first introduces a practice about which the argument makes a prediction, the second is a conclusion based on that prediction.

E. The first introduces a practice about which the argument makes a prediction; the second is an assessment that is used to support that prediction.

### Passage 109

New methods developed in genetic research have led taxonomists to revise their views on the evolutionary relationships between many species. Traditionally the relatedness of species has been ascertained by a close comparison of their anatomy. The new methods infer the closeness of any two species' relationship to each other directly from similarities between the species' genetic codes.

Which of the following conclusions is best supported by the information?

A. The apparent degree of relatedness of some species, as determined by anatomical criteria, is not borne out by their degree of genetic similarity.

- B. When they know the differences between two species' genetic codes, taxonomists can infer what the observable anatomical differences between those species must be.
- C. The degree to which individuals of the same species are anatomically similar is determined more by their genetic codes than by such environmental factors as food supply.
- D. The traditional anatomical methods by which taxonomists investigated the relatedness of species are incapable of any further refinement.
- E. Without the use of genetic methods, taxonomists would never be able to obtain any accurate information about species' degrees of relatedness to one another.

#### Passage 110

Sportfishers introduced the Zander, a type of perch, to Britain's rivers and canals in the 1970s. Because zander eat large numbers of smaller fish, they have had a devastating effect on native fish populations. To protect the native fish, a government program removed a significant proportion of the zander from Britain's waterways last year. Surprisingly, this year the loss of native fish to zander has been greater than before.

Which of the following, if true, would most help to explain the greater effect of zander on the native fish population?

- A. The climate in Britain is very similar to the climate in regions to which zander are native.
- B. Most of the zander removed were fully grown, and fully grown zander eat large numbers of smaller zander.
- C. Every year a large number of zander are caught by sportfisher in Britain's waterway.
- D. Previous government program designed to remove nonnative species from Britain's waterways have failed.
- E. Zander are just one of several nonnative fish that prey on the other fish found in Britain's waterway.

#### Passage 111

Although initially symptomless, glaucoma can eventually cause blindness when not properly treated. Tests under laboratory conditions of the traditional treatment, daily administration of eyedrops, show it to be as effective in relieving the internal ocular pressure that causes glaucoma as is a new laser-surgical procedure. Yet glaucoma-related blindness occurs in a significantly smaller percentage of patients who have had the surgery than of patients for whom only the eyedrop treatment was prescribed.

Which of following, if true, most helps to explain the low rate glaucoma-related blindness among patients who had the surgery?

- A. Glaucoma-related blindness is no more common among patients who have had only the surgery than it is among patients who had the surgery after using the eyedrops
- B. Doctors rarely recommend the surgery for glaucoma patients who have already started the traditional course of treatment
- C. There is no known physiological cause of glaucoma other than increase in pressure inside

the eye

- D. A significant percentage of the people for whom the eyedrop treatment has been prescribed fail to follow the prescribed daily regimen, because the eyedrops have unpleasant side effects.
- E. The eyedrops traditionally prescribed to treat glaucoma are normally prescribed to treat other disease of the eye.

### Passage 112

There are many structural and thematic similarities between *Piers Plowman* by Langland (1330-1400) and *House of Fame* by Chaucer (1342-1400), two Middle English poems relating dream visions. Some critics have argued that because a number of the shared elements are uncommon in Middle English poetry, and because Langland's poem probably predates Chaucer's by a few years, Chaucer was most likely influenced by *Piers Plowman* when writing *House of Fame*.

Which of the following, if true, most seriously weakens the critics' argument?

- A. *Piers Plowman* is one of Langland's major works, whereas *House of Fame* is a minor work of Chaucer's.
- B. *House of Fame* survives in only three manuscript copies, substantially fewer than the number of manuscript copies that exist of *Piers Plowman*.
- C. Because *Piers Plowman* became a well-known work in its day, it is likely that the similarities between it and *House of Fame* were detected by many of the people who read *House of Fame* soon after Chaucer wrote it.
- D. Many of the themes and structures of *Piers Plowman* are also found in Latin, Italian, French works with which Chaucer could well have been familiar.
- E. There is no evidence that Chaucer and Langland ever met or that they corresponded with each other about literary topics.

### Passage 113

The Great Sphinx is a huge statue in Egypt that has a lion's body with a man's head. The face of the Sphinx has long been claimed to be that of pharaoh Khafre, who lived around 2600 B.C., but it cannot be: erosion patterns recently discovered on the lion's legs can only have been caused by heavy rains, and the Sahara has not had heavy rains in over 10,000 years.

Which of the following, if true, most seriously weakens the argument?

- A. The face of the Sphinx bears a resemblance to the faces on certain stylized statues dating from both before and after the reign of Khafre.
- B. Other erosion patterns that appear on the body of the Sphinx are of a sort that could be caused by wind and sand alone
- C. Other than the Sphinx, there are no surviving sculptures that have been claimed to portray the face of Khafre.
- D. In the last 10,000 years the climate of Egypt has been so dry that even rains that are not heavy have been extremely infrequent.



E. The face of the Sphinx is small relative to the rest of the head, indicating that the face may have been recarved long after the Sphinx was built.

#### Passage 114

Princessfish are a species of coral-reef fish that are captured alive by divers who first stun the individual fish by squirting a certain poison at them. Since the divers limit their catch to a few individuals and take care not to overfish, the divers' continuing activities will clearly not result in serious harm to populations of princessfish.

Which of the following, if true, most seriously weaken the argument given?

- A. Princessfish cannot be captured alive by traditional methods of fishing.
- B. The poison used to stun the princessfish has no effect on humans who eat them.
- C. Demand for princessfish has remained steady during the last decade.
- D. Traces of the poison that remain in the seawater damage the corals that create and maintain the reefs on which princessfish depend.
- E. Fish that have been stunned but have selected for capture by the divers soon recover from the temporary effect of the poison.

#### Passage 115

Between 1970 and 1980, energy consumption by United States industry peaked and then declined, so that by 1980 total industrial use of energy was below the 1970 level even though total industrial output had grown substantially in the same period. Industry must have instituted highly effective energy conservation measures in those years to have achieved such impressive results.

Which of the following, if true, most seriously weakens the conclusion of the argument?

- A. Many industries switched to the greatest extent possible from high-priced oil to lower-priced alternatives throughout the 1970's.
- B. Total residential energy consumption was higher in the United States in 1980 than it had been in 1970
- C. Many industrial users of energy had paid little attention to energy conservation prior to 1970.
- D. Industrial output grew less rapidly from 1970 to 1980 than it had from 1960 to 1970.
- E. The industries whose production dropped sharply during the 1970's included a disproportionately large number of energy-intensive industries.

#### Passage 116

In mountainous regions, the timberline is the highest altitude at which trees grow. In the Rocky Mountains, the current timberline is at the altitude above which growing season temperatures remain cooler than 10 degrees centigrade. Fossilized remains of trees that grew 10,000 years ago have been found 100 meters above the current Rocky Mountain timberline. Clearly, therefore, the climate of the Rocky Mountains is cooler now than it was 10,000 years

ago.

Which of the following is an assumption on which the argument relies?

- A. In the past 10,000 years, the only trees to have grown above today's timberline are the trees whose fossilized remains have been found.
- B. No trees grew 10,000 years ago at altitudes higher than the ones at which fossilized tree remains have been found.
- C. The fossils are not of species of trees that were able to tolerate cooler growing temperatures than are the species that currently grow near the timberline.
- D. The Rocky Mountains have not eroded significantly over the past 10,000 years.
- E. The climate of the Rocky Mountains has never been significantly warmer than during the lifetime of the trees whose fossilized remains have been found.

#### Passage 117

Cotton grass, which grows only in arctic regions, has been the only summertime source of protein available to caribou. Caribou that do not get adequate amounts of protein in the summer are unable to reproduce the following year. Rising average temperatures in arctic regions, however, are causing cotton grass to disappear. Therefore, if the warming trend continues, caribou are likely to become extinct.

Which of the following is an assumption on which the argument depends?

- A. cotton grass is the only one of the caribou's food sources that is becoming scarce as temperatures rise in arctic regions.
- B. caribou that do not eat enough protein to reproduce do not live as long as caribou that do
- C. The warming trend in arctic regions will not enable other plants capable of providing protein to caribou to grow there.
- D. The caribou is the only animal that depends on cotton grass as a major source of food.
- E. If the warming trend continues and cotton grass disappears from arctic regions, then cotton grass will be extinct.

#### Passage 118

In the shallow end of Lake Tomwa, there are remains of numerous Jeffery pine trees that grew there during a lengthy drought. Researchers had believed that this drought lasted at least 150 years, but carbon dating reveals that pines were growing in the lake bed for only 120 years, from 1200 until 1320. Since the Jeffrey pines, which cannot survive in water, must have died at the end of the drought, the dating shows that the drought lasted less than 150 years.

The argument given relies on which of the following as an assumption?

- A. No other species of tree started growing in the bed of Lake Tomwa after 1200.
- B. No tree remains of any kind are present at the bottom of deeper parts of Lake Tomwa.
- C. There was at least one tree in the lake bed that was alive for the entire period from 1200 to 1320.

D. There has not been a more recent drought that caused a drying up of the shallow end of the lake.

E. The shallow end of the lake had been dry for less than 30 years by the time Jeffrey pines started growing in the lake bed.

### Passage 119

A plant-based automobile fuel has just become available in Ternlan. A car can be driven as far on a gallon of the new plant-based fuel as a car can be driven on a gallon of gasoline, but a gallon of the plant-based fuel both costs less and results in less pollution. Therefore, drivers in Ternland who switch to it will reduce the amount they spend on fuel in a year while causing less environmental damage.

Which of the following is an assumption on which the argument relies?

A. There is no expense associated with operating an automobile that is higher when the automobile uses the plant-based fuel than when it uses gasoline.

B. Automobiles that have been operated using the plant-based fuel can no longer be operated using regular gasoline.

C. The environmental damage attributable to automobiles is due almost entirely to the production and combustion of fuel automobiles use.

D. The advantages of the plant-based fuel over gasoline will not lead those who switch to the plant-based fuel to do more driving.

E. Most drivers in Ternland will switch from gasoline to the plant-based fuel.

### Passage 120

Currently, Sulandian television journalists are twice as likely as other workers to support the Blue Party, and Sulandian journalism students are significantly more likely to support the Blue Party than working television journalists are. Therefore, assuming that these students do not change their political affiliations as they get older, the disparity between the political affiliations of Sulandia's television journalists and those of the rest of the working population will increase as current Sulandian journalism students enter the profession.

Which of the following is an assumption on which the argument depends?

A. Few of the television journalists currently working in Sulandia were trained in Sulandian journalism schools.

B. Journalists in Sulandia whose political affiliations differ from those of the general population tend to allow their political views to affect the way they report news about politics.

C. Most of the television journalists currently working in Sulandia who support the Blue Party also supported the Blue Party when they were students.

D. Support for the Blue party is not significantly less common among those current Sulaidan journalism students who intend to become television journalists than it is among current Sulandian journalism students as a whole.

E. Classes in Sulandian journalism schools are not taught mainly by working Sulandian

journalists.

### Passage 121

Biologists studying wild monkeys sometimes need the genetic material DNA from a particular monkey to determine the animal's parentage. Until recently, DNA could be extracted only from blood. Collecting a blood sample required tranquilizing the donor animal. Now DNA can be extracted from hair. Monkeys shed large quantities of hair in places where they sleep. Therefore, researchers will now be able to determine the parentage of individual monkeys from DNA without tranquilizing the monkeys.

Which of the following is an assumption on which the argument depends?

- A. The places in which monkeys sleep are easily accessible to researchers.
- B. Information about a particular monkey's parentage is the only kind of information that can be determined from DNA that has been extracted from that monkey's hair.
- C. For at least some samples of hair collected from monkey habitat it will be possible to associate hairs with the individual monkeys from which they came.
- D. Examining DNA is the only way to determine the parentage of wild monkeys.
- E. It will be necessary to obtain any hair samples used in determining a monkey's parentage from a place where the monkey has slept.

### Passage 122

When on an airplane, Consuelo never enjoys movies that have been widely recommended because the poor quality of the picture spoils her enjoyment. Since in no circumstances does she ever enjoy movies that have been widely derided, it follows that she never enjoys movies on airplanes.

Which of the following, if true, would enable the conclusion of the argument to be properly drawn?

- A. The only place where Consuelo enjoys widely recommended movies is a movie theater.
- B. Widely recommended movies are never shown on airplane.
- C. If a movie shown on an airplane is not widely derided, then it is invariably widely recommended.
- D. If the picture quality of the movies shown on airplanes was better, Consuelo would enjoy the widely recommended movies.
- E. Some movies are neither widely recommended nor widely derided.

### Passage 123

Although the percentage of first graders in Almaria who were excellent readers varied little between 1995 and 2010, the percentage of first graders who had considerable difficulty reading their schoolbooks increased markedly during that period. This evidence strongly indicates that the average reading ability of first graders decreased between 1995 and 2010.

Which of the following, if true, provides the strongest additional support for the argument?

- A. The number of hours devoted to reading activities in first-grade classrooms in Almaria did not vary significantly, on average, between 1995 and 2010.
- B. The percentage of first graders in Almaria who had difficulty solving arithmetic problems did not increase as much between 1995 and 2010 as did the percentage of first graders who had reading difficulties.
- C. The number of children in Almaria who were enrolled as first graders decreased steadily between 1995 and 2010.
- D. The average difficulty of the schoolbooks used in first-grade classrooms in Almaria decreased between 1995 and 2010.
- E. The average number of schoolbooks used in first-grade classrooms in Almaria increased between 1995 and 2010.

#### Passage 124

The Minoan civilization flourished on the island of Crete around 2000 B.C. The discovery on Crete of large numbers of bronze implements and the furnaces used in their manufacture shows that the Minoans had a thriving bronze industry. Moreover, many bronze artifacts from this period that are similar in style to those produced on Crete have been found in southern Greece. Hence it is probable that, besides making bronzeware for domestic use, the Minoans exported bronzeware to southern Greece.

Which of the following, if true, most strengthens the argument given?

- A. Copper and tin, the main ingredients of bronze, were present in Southern Greece.
- B. No furnaces dating from the Minoan era and suitable for the manufacture of bronze implements have been found in southern Greece.
- C. The Minoans exported a great deal of pottery, which was highly valued by other ancient civilizations.
- D. The fuel needed for Minoan bronzeware furnaces was provided by a variety of local species of hardwood.
- E. Some of the pieces of bronzeware found on Crete were non-Minoan in origin.

#### Passage 125

Recently an unusually high number of dolphins have been found dead of infectious diseases, and most of these had abnormally high tissue concentrations of certain compounds that, even in low concentrations, reduce dolphins' resistance to infection. The only source of these compounds in the dolphins' environment is boat paint. Therefore, since dolphins rid their bodies of the compounds rapidly once exposure ceases, their mortality rate should decline rapidly if such boat paints are banned.

Which of the following, if true, most strengthens the argument?

- A. The levels of the compounds typically used in boat paints today are lower than they were in



boat paints manufactured a decade ago.

- B. In high concentrations, the compounds are toxic to many types of marine animals.
- C. The compounds break down into harmless substances after a few months of exposure to water or air.
- D. High tissue levels of the compounds have recently been found in some marine animals, but there is no record of any of those animals dying in unusually large numbers recently.
- E. The compounds do not leach out of the boat paint if the paint is applied exactly in accordance with the manufacturer's directions.

#### Passage 126

Although several ancient cultures practiced mummification, mummies from ancient Egypt are generally more well-preserved than mummies of similar antiquity from other cultures. One possible explanation for this difference is that the mummification techniques or material used by ancient Egyptians were better than those of other cultures. A second, more likely, explanation is that the extremely dry climate of ancient Egypt was largely responsible, given that dryness promotes the preservation of organic remains generally.

Which of the following provide the most support for the argument?

- A. The materials used by ancient Egyptians for mummification were not used by any other ancient culture that practiced mummification
- B. Some ancient Egyptian mummies are better preserved than other ancient Egyptian mummies form around the same time.
- C. No ancient people living in very damp areas practiced mummification.
- D. Bodies from ancient Egyptian tombs dating from before the practice of mummification began are almost as well preserved as ancient Egyptian mummies.
- E. Ancient mummies discovered in places other than Egypt have typically not been as well protected from the elements as ancient Egyptian mummies were.

#### Passage 127

An alarming number of Mediterranean monk seals, an endangered species, have recently died. Postmortem analysis showed the presence of an as yet unidentified virus, as well as evidence of a known bacterial toxin. Seawater samples from the area where the seals died did contain unusually high concentrations of the toxic bacterium. Therefore, although both viruses and bacterial toxins can kill seals, it is more likely that these deaths were the result of the bacterial toxin.

Which of the following, if true, provides additional evidence to support the conclusion?

- A. Viruses are much more difficult to identify in postmortem analysis than bacteria are.
- B. Mediterranean monk seals are the only species of seal in the area where the bacterium was found.
- C. The bacterium is almost always present in the water in at least small concentrations.
- D. Nearly all the recent deaths were among adult seals, but young seals are far more susceptible

to viruses than are adult seals.

E. Several years ago, a large number of monk seals died in the same area as a result of exposure to a different bacterial toxin.

### Passage 128

Iridium, a hard, whitish metal similar to platinum, is extremely rare on Earth. Extremely high concentrations of iridium on Earth result from only two scenarios: massive volcanic eruptions that release iridium from deep within the Earth and meteorites that shower down on Earth from space. When scientists found concentrations of iridium 30 times higher than normal in rock stratum from 65 million years ago, they concluded that a massive meteor or comet hit the Earth and caused the massive extinction of the dinosaurs.

Which of the following, if true, most strongly supports the scientist's conclusion?

- A. Volcanoes massive enough to generate high concentrations of iridium are very rare.
- B. Massive volcanic eruptions occurred frequently 80 million years ago.
- C. Most scientists support the hypothesis that a cosmic impact wiped out the dinosaurs.
- D. The massive extinction that occurred 70 million years ago killed not only the dinosaurs but also 70 percent of all life on Earth.
- E. A comet struck the earth some 120 million years ago, but no widespread extinction occurred.

### Passage 129

Upon maturity, monarch butterflies travel hundreds of miles from their places of origin and lay their eggs on milkweed. The caterpillars that emerge feed on milkweed and absorb the glycosides in milkweed sap. The specific glycosides present in milkweed differ from region to region within the monarch butterfly's range. Since mature butterflies retain the glycosides, the glycosides in a mature monarch butterfly could be used to determine its place of origin.

Which of the following, if true, most strengthens the argument?

- A. Mature monarch butterflies do not feed on parts of milkweed that contain glycosides.
- B. The glycosides in milkweed sap are slightly toxic to caterpillars of other species.
- C. The vast majority of the monarch butterflies that are laying eggs in a given region will have traveled there from a single region.
- D. There are substances other than glycosides in milkweed sap that accumulate in a monarch caterpillar and are retained in the body of the mature butterfly.
- E. There are certain glycosides that are found in the sap of all milkweeds, no matter where they grow within the monarch butterfly's range.

### Passage 130

When rats are placed under conditions of stress, their adrenal glands immediately increase production of the hormone corticosterone, and soon thereafter the rats' white blood cell count drops substantially. Yet rats without functioning adrenal glands experience little decrease in

white blood cell count when placed under conditions of stress. It is likely, therefore, that an increase in corticosterone produced by a rat's adrenal glands causes the rat's white blood cell count to decrease.

Which of the following would it be most useful to know in evaluating the reasoning of the argument?

- A. Whether the drop in white blood cell count that occurs in rats under conditions of stress is sufficient to make the rats more susceptible to diseases that white blood cells normally combat
- B. Whether normal white blood cell counts vary widely among healthy rats that are not under conditions of stress
- C. Whether the adrenal glands of rats that are under conditions of stress increase production of any hormone other than corticosterone
- D. Whether the adrenal glands of rats produce elevated levels of corticosterone on occasions when the rats are not under conditions of stress
- E. Whether rats' adrenal glands are affected by hormones produced by any of the rats' other organs.

#### Passage 131

The economy of Colonia has been in recession for the past eight years. Most companies that have not been forced into bankruptcy have survived thanks to the high efficiency of the employees they retained, which helped the companies control costs. In recent months, however, the Colonian economy has begun to recover, and companies are beginning to expand their workforces. Colonia, therefore, will soon experience a drop in average worker efficiency, since \_\_\_\_\_.

Which of the following, if true, most logically complete the argument?

- A. people who have been employed throughout the recession will, no doubt, continue to be employed
- B. Colonia is expected to begin importing more goods from other countries
- C. most companies will find that few of the workers available for hiring are as efficient as those they retained during the recession.
- D. during the recession, workers did not receive any raise in their pay.
- E. many companies that were forced into bankruptcy in the past eight years had a fair number of efficient workers.

#### Passage 132

A hoard of coins recently unearthed at an ancient Carthagian site bear an image of a face in profile with what appears to be a large mole on the cheek. Pointing out that an artist would be unlikely to include such a specific detail in a generalized portrayal of a face, some archaeologists have concluded that these coins portray an actual individual rather than an idealized type. However, this conclusion is unwarranted, since \_\_\_\_\_.

Which of the following most logically completes the argument?

- A. archaeologists cannot determine the actual identity of the individual portrayed just from the likeness that appears on the coins
- B. it cannot be established with certainty that Carthagian artists were on the whole less skillful at portraying human face than artists of other cultures
- C. none of the other designs of Carthagian coins that have been discovered features a face with a mole on it
- D. in ancient times it was quite common for the money circulated in a city or country to include coins that originated in other jurisdictions.
- E. the relatively soft metal used for Carthagian coin molds sometimes resulted in the production of series of coins with unintended bumps

### Passage 133

People widely believed that the controlled use of fire originated 200,000 years ago with the human species *Homo sapiens*. However, a site containing a deposit, estimated to be nearly 500,000 years old, consisting of charcoal, burned animal bones, and charred rocks, has recently been found. Although *homo sapiens* did not exist at that time, this discovery provides no basis to the claim that the controlled use of fire preceded the *Homo sapiens*, since \_\_\_\_\_.

Which of the following most logically completes the passage?

- A. the use of fire might have originated independently in several different parts of the world
- B. it is possible that fire was used much earlier than 500,000 years ago
- C. the charred rocks found in the deposit included several different kinds of stone, all of which are common in the immediate vicinity of the site
- D. animal bones could have been discarded in a fire used for purposes such as protection or heat rather than for cooking
- E. it is impossible to determine whether a charred deposit dating from so long ago resulted from a fire caused by lightning or from the purposeful use of fire

### Passage 134

Because of strong overall stylistic similarities, prehistoric cave paintings in El Castillo, Spain and others in Altamira, Spain, were thought to date from the same period. Recent pigment analyses, however, established the Altamira paintings as by far the older and as about the same age as a third group of paintings done in a different overall style. Nevertheless, this case does not prove that stylistic similarities cannot be a reliable indicator of closeness in age, since \_\_\_\_\_.

Which of the following most logically completes the passage?

- A. experts who knew the results of the pigment analyses reexamined these paintings and found no previously unnoticed stylistic similarities between the Altamira paintings and the paintings in the third group
- B. there are certain stylistic features that the Altamira paintings share with all known paintings

- of their period and do not share with the El Castillo paintings
- C. before dating by pigment analysis was widely practiced, stylistic similarities were the only means of determining whether two prehistoric cave paintings dated from the same period
- D. determining the age of a prehistoric cave painting simply by reference to the age of the pigments used in that painting substitutes technology for artistic judgment
- E. there are experts who maintain that the results of the recent pigment analyses leave the striking stylistic similarities between the El Castillo paintings and the Altamira paintings unexplained

## Passage 135

Members of the San, a hunter-gatherer society, have a diet far richer in fruits and vegetables and lower in salt than is typical in industrialized societies. They also differ from industrialized societies in that they have extremely low rates of high blood pressure and obesity. However, contrary to what some have claimed, if people in industrialized societies adopted the San's diet, the incidence of high blood pressure and obesity in these societies might not be dramatically reduced, because \_\_\_\_\_.

Which of the following most logically completes the passage?

- A. psychological stress, which can also cause high blood pressure, occurs in both industrialized and nonindustrialized societies
- B. the San's low-salt diet is due, not to preference, but to the limited availability of salt in their region
- C. a few members of the San have been found to suffer from circulatory system ailments other than high blood pressure
- D. members of the San are far more physically active than are most members of industrialized societies
- E. not all individuals with high blood pressure are obese

## Passage 136

For the first time, funding for designing experiments to be conducted during space flights has been made available by the government space program to university biologists not already employed by the space program. From the fact that little interest has been expressed in this offer, however, it cannot be concluded that virtually the only biologists interested in research that such experiments could address are those biologists already employed by the space program, since \_\_\_\_\_.

Which of the following most logically complete the passage?

- A. Relatively few of the biologists already employed by the space program have ever held university positions
- B. There are more research biologist in industry than at universities.
- C. Biologists are not the only scientists interested in research that could be furthered by the opportunity to conduct experiments in space



- D. The space program employs only a small percentage of the research biologists employed by the government.
- E. Much of the biological research currently funded by the government's space program is concerned with the biological effects of a weightless environment.

### Passage 137

The damage that trucks do to highways escalates dramatically with the weight borne per axle. New regulations increase the maximum permitted vehicle weight; these regulations will therefore allow onto the highway trucks capable of doing even more damage than those currently permitted.

The argument is open to criticism on the grounds that it:

- A. Fails to establish that the level of damage done by trucks is a serious problem
- B. Omits evidence about one of the two relevant factors
- C. Ignores the possibility that careful driving can lessen damage to highways
- D. Presumes that trucks are the only vehicles capable of causing substantial damage to highways
- E. Presumes that something is bound to happen just because it is allowed to happen