

THE OCTOBER 2010 LSAT

Section I.....35 minutes

Section II.....35 minutes

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Section V.....35 minutes

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SECTION I
Time—35 minutes
27 Questions

Directions: Each set of questions in this section is based on a single passage or a pair of passages. The questions are to be answered on the basis of what is stated or implied in the passage or pair of passages. For some of the questions, more than one of the choices could conceivably answer the question. However, you are to choose the best answer; that is, the response that most accurately and completely answers the question, and blacken the corresponding space on your answer sheet.

- The Universal Declaration of Human Rights (UDHR), approved by the United Nations General Assembly in 1948, was the first international treaty to expressly affirm universal respect for human rights.
- (5) Prior to 1948 no truly international standard of humanitarian beliefs existed. Although Article 1 of the 1945 UN Charter had been written with the express purpose of obligating the UN to “encourage respect for human rights and for fundamental
- (10) freedoms for all without distinction as to race, sex, language, or religion,” there were members of delegations from various small countries and representatives of several nongovernmental organizations who felt that the language of Article 1
- (15) was not strong enough, and that the Charter as a whole did not go far enough in its efforts to guarantee basic human rights. This group lobbied vigorously to strengthen the Charter’s human rights provisions and proposed that member states be
- (20) required “to take separate and joint action and to co-operate with the organization for the promotion of human rights.” This would have implied an obligation for member states to act on human rights issues. Ultimately, this proposal and others like it were not
- (25) adopted; instead, the UDHR was commissioned and drafted.

- The original mandate for producing the document was given to the UN Commission on Human Rights in February 1946. Between that time and the General
- (30) Assembly’s final approval of the document, the UDHR passed through an elaborate eight-stage drafting process in which it made its way through almost every level of the UN hierarchy. The articles were debated at each stage, and all 30 articles were
- (35) argued passionately by delegates representing diverse ideologies, traditions, and cultures. The document as it was finally approved set forth the essential principles of freedom and equality for everyone—regardless of sex, race, color, language, religion,
- (40) political or other opinion, national or social origin, property, birth or other status. It also asserted a number of fundamental human rights, including among others the right to work, the right to rest and leisure, and the right to education.
- (45) While the UDHR is in many ways a progressive document, it also has weaknesses, the most regrettable of which is its nonbinding legal status. For all its strong language and high ideals, the UDHR remains a resolution of a purely programmatic nature.
- (50) Nevertheless, the document has led, even if belatedly,

to the creation of legally binding human rights conventions, and it clearly deserves recognition as an international standard-setting piece of work, as a set of aspirations to which UN member states are intended to strive, and as a call to arms in the name of humanity, justice, and freedom.

- (55) 1. By referring to the Universal Declaration of Human Rights as “purely programmatic” (line 49) in nature, the author most likely intends to emphasize
- (A) the likelihood that the document will inspire innovative government programs designed to safeguard human rights
- (B) the ability of the document’s drafters to translate abstract ideals into concrete standards
- (C) the compromises that went into producing a version of the document that would garner the approval of all relevant parties
- (D) the fact that the guidelines established by the document are ultimately unenforceable
- (E) the frustration experienced by the document’s drafters at stubborn resistance from within the UN hierarchy
2. The author most probably quotes directly from both the UN Charter (lines 8–11) and the proposal mentioned in lines 20–22 for which one of the following reasons?
- (A) to contrast the different definitions of human rights in the two documents
- (B) to compare the strength of the human rights language in the two documents
- (C) to identify a bureaucratic vocabulary that is common to the two documents
- (D) to highlight what the author believes to be the most important point in each document
- (E) to call attention to a significant difference in the prose styles of the two documents
3. The author’s stance toward the Universal Declaration of Human Rights can best be described as
- (A) unbridled enthusiasm
- (B) qualified approval
- (C) absolute neutrality
- (D) reluctant rejection
- (E) strong hostility

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4. According to the passage, each of the following is true of the Universal Declaration of Human Rights EXCEPT:
- (A) It asserts a right to rest and leisure.
 - (B) It was drafted after the UN Charter was drafted.
 - (C) The UN Commission on Human Rights was charged with producing it.
 - (D) It has had no practical consequences.
 - (E) It was the first international treaty to explicitly affirm universal respect for human rights.
5. The author would be most likely to agree with which one of the following statements?
- (A) The human rights language contained in Article 1 of the UN Charter is so ambiguous as to be almost wholly ineffectual.
 - (B) The weaknesses of the Universal Declaration of Human Rights generally outweigh the strengths of the document.
 - (C) It was relatively easy for the drafters of the Universal Declaration of Human Rights to reach a consensus concerning the contents of the document.
 - (D) The drafters of the Universal Declaration of Human Rights omitted important rights that should be included in a truly comprehensive list of basic human rights.
 - (E) The Universal Declaration of Human Rights would be truer to the intentions of its staunchest proponents if UN member countries were required by law to abide by its provisions.
6. Suppose that a group of independent journalists has uncovered evidence of human rights abuses being perpetrated by a security agency of a UN member state upon a group of political dissidents. Which one of the following approaches to the situation would most likely be advocated by present-day delegates who share the views of the delegates and representatives mentioned in lines 11–14?
- (A) The UN General Assembly authenticates the evidence and then insists upon prompt remedial action on the part of the government of the member state.
 - (B) The UN General Assembly stipulates that any proposed response must be unanimously accepted by member states before it can be implemented.
 - (C) The UN issues a report critical of the actions of the member state in question and calls for a censure vote in the General Assembly.
 - (D) The situation is regarded by the UN as an internal matter that is best left to the discretion of the government of the member state.
 - (E) The situation is investigated further by nongovernmental humanitarian organizations that promise to disclose their findings to the public via the international media.
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- It is commonly assumed that even if some forgeries have aesthetic merit, no forgery has as much as an original by the imitated artist would. Yet even the most prominent art specialists can be duped by a talented artist turned forger into mistaking an almost perfect forgery for an original. For instance, artist Han van Meegeren's *The Disciples at Emmaus* (1937)—painted under the forged signature of the acclaimed Dutch master Jan Vermeer (1632–1675)—attracted lavish praise from experts as one of Vermeer's finest works. The painting hung in a Rotterdam museum until 1945, when, to the great embarrassment of the critics, van Meegeren revealed its origin. Astonishingly, there was at least one highly reputed critic who persisted in believing it to be a Vermeer even after van Meegeren's confession.

- Given the experts' initial enthusiasm, some philosophers argue that van Meegeren's painting must have possessed aesthetic characteristics that, in a Vermeer original, would have justified the critics' plaudits. Van Meegeren's *Emmaus* thus raises difficult questions regarding the status of superbly executed forgeries. Is a forgery inherently inferior as art? How are we justified, if indeed we are, in revising downwards our critical assessment of a work unmasked as a forgery? Philosopher of art Alfred Lessing proposes convincing answers to these questions.

- A forged work is indeed inferior as art, Lessing argues, but not because of a shortfall in aesthetic qualities strictly defined, that is to say, in the qualities perceptible on the picture's surface. For example, in its composition, its technique, and its brilliant use of color, van Meegeren's work is flawless, even beautiful. Lessing argues instead that the deficiency lies in what might be called the painting's intangible qualities. All art, explains Lessing, involves technique, but not all art involves origination of a new vision, and originality of vision is one of the fundamental qualities by which artistic, as opposed to purely aesthetic, accomplishment is measured. Thus Vermeer is acclaimed for having inaugurated, in the seventeenth century, a new way of seeing, and for pioneering techniques for embodying this new way of seeing through distinctive treatment of light, color, and form.

- Even if we grant that van Meegeren, with his undoubted mastery of Vermeer's innovative techniques, produced an aesthetically superior painting, he did so about three centuries after Vermeer developed the techniques in question. Whereas Vermeer's origination of these techniques in the seventeenth century represents a truly impressive and historic achievement, van Meegeren's production of *The Disciples at Emmaus* in the twentieth century presents nothing new or creative to the history of art. Van Meegeren's forgery therefore, for all its aesthetic merits, lacks the historical significance that makes Vermeer's work artistically great.

7. Which one of the following most accurately expresses the main point of the passage?
- (A) *The Disciples at Emmaus*, van Meegeren's forgery of a Vermeer, was a failure in both aesthetic and artistic terms.
 - (B) The aesthetic value of a work of art is less dependent on the work's visible characteristics than on certain intangible characteristics.
 - (C) Forged artworks are artistically inferior to originals because artistic value depends in large part on originality of vision.
 - (D) The most skilled forgers can deceive even highly qualified art experts into accepting their work as original.
 - (E) Art critics tend to be unreliable judges of the aesthetic and artistic quality of works of art.
8. The passage provides the strongest support for inferring that Lessing holds which one of the following views?
- (A) The judgments of critics who pronounced *The Disciples at Emmaus* to be aesthetically superb were not invalidated by the revelation that the painting is a forgery.
 - (B) The financial value of a work of art depends more on its purely aesthetic qualities than on its originality.
 - (C) Museum curators would be better off not taking art critics' opinions into account when attempting to determine whether a work of art is authentic.
 - (D) Because it is such a skilled imitation of Vermeer, *The Disciples at Emmaus* is as artistically successful as are original paintings by artists who are less significant than Vermeer.
 - (E) Works of art that have little or no aesthetic value can still be said to be great achievements in artistic terms.
9. In the first paragraph, the author refers to a highly reputed critic's persistence in believing van Meegeren's forgery to be a genuine Vermeer primarily in order to
- (A) argue that many art critics are inflexible in their judgments
 - (B) indicate that the critics who initially praised *The Disciples at Emmaus* were not as knowledgeable as they appeared
 - (C) suggest that the painting may yet turn out to be a genuine Vermeer
 - (D) emphasize that the concept of forgery itself is internally incoherent
 - (E) illustrate the difficulties that skillfully executed forgeries can pose for art critics

10. The reaction described in which one of the following scenarios is most analogous to the reaction of the art critics mentioned in line 13?
- (A) lovers of a musical group contemptuously reject a tribute album recorded by various other musicians as a second-rate imitation
 - (B) art historians extol the work of a little-known painter as innovative until it is discovered that the painter lived much more recently than was originally thought
 - (C) diners at a famous restaurant effusively praise the food as delicious until they learn that the master chef is away for the night
 - (D) literary critics enthusiastically applaud a new novel until its author reveals that its central symbols are intended to represent political views that the critics dislike
 - (E) movie fans evaluate a particular movie more favorably than they otherwise might have because their favorite actor plays the lead role
11. The passage provides the strongest support for inferring that Lessing holds which one of the following views?
- (A) It is probable that many paintings currently hanging in important museums are actually forgeries.
 - (B) The historical circumstances surrounding the creation of a work are important in assessing the artistic value of that work.
 - (C) The greatness of an innovative artist depends on how much influence he or she has on other artists.
 - (D) The standards according to which a work is judged to be a forgery tend to vary from one historical period to another.
 - (E) An artist who makes use of techniques developed by others cannot be said to be innovative.
12. The passage most strongly supports which one of the following statements?
- (A) In any historical period, the criteria by which a work is classified as a forgery can be a matter of considerable debate.
 - (B) An artist who uses techniques that others have developed is most likely a forger.
 - (C) A successful forger must originate a new artistic vision.
 - (D) Works of art created early in the career of a great artist are more likely than those created later to embody historic innovations.
 - (E) A painting can be a forgery even if it is not a copy of a particular original work of art.
13. Which one of the following, if true, would most strengthen Lessing's contention that a painting can display aesthetic excellence without possessing an equally high degree of artistic value?
- (A) Many of the most accomplished art forgers have had moderately successful careers as painters of original works.
 - (B) Reproductions painted by talented young artists whose traditional training consisted in the copying of masterpieces were often seen as beautiful, but never regarded as great art.
 - (C) While experts can detect most forgeries, they can be duped by a talented forger who knows exactly what characteristics experts expect to find in the work of a particular painter.
 - (D) Most attempts at art forgery are ultimately unsuccessful because the forger has not mastered the necessary techniques.
 - (E) The criteria by which aesthetic excellence is judged change significantly from one century to another and from one culture to another.

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Passage A

- (5) One function of language is to influence others' behavior by changing what they know, believe, or desire. For humans engaged in conversation, the perception of another's mental state is perhaps the most common vocalization stimulus.

- (10) While animal vocalizations may have evolved because they can potentially alter listeners' behavior to the signaler's benefit, such communication is—in contrast to human language—inadvertent, because most animals, with the possible exception of chimpanzees, cannot attribute mental states to others. The male *Physalaemus* frog calls because calling causes females to approach and other males to retreat, but there is no evidence that he does so because he attributes knowledge or desire to other frogs, or because he knows his calls will affect their knowledge and that this knowledge will, in turn, affect their behavior. Research also suggests that, in marked contrast to humans, nonhuman primates do not produce vocalizations in response to perception of another's need for information. Macaques, for example, give alarm calls when predators approach and coo calls upon finding food, yet experiments reveal no evidence that individuals were more likely to call about these events when they were aware of them but their offspring were clearly ignorant; similarly, chimpanzees do not appear to adjust their calling to inform ignorant individuals of their own location or that of food. Many animal vocalizations whose production initially seems goal-directed are not as purposeful as they first appear.

Passage B

- (30) Many scientists distinguish animal communication systems from human language on the grounds that the former are rigid responses to stimuli, whereas human language is spontaneous and creative.

- (35) In this connection, it is commonly stated that no animal can use its communication system to lie. Obviously, a lie requires intention to deceive: to judge whether a particular instance of animal communication is truly prevarication requires knowledge of the animal's intentions. Language philosopher H. P. Grice explains that for an individual to mean something by uttering *x*, the individual must intend, in expressing *x*, to induce an audience to believe something and must also intend the utterance to be recognized as so intended. But conscious intention is a category of mental experience widely believed to be uniquely human. Philosopher Jacques Maritain's discussion of the honeybee's elaborate "waggle-dance" exemplifies this view. Although bees returning to the hive communicate to other bees the distance and direction of food sources, such communication is, Maritain asserts, merely a conditioned reflex: animals may use communicative signs but lack conscious intention regarding their use.

- (50) But these arguments are circular: conscious intention is ruled out a priori and then its absence taken as evidence that animal communication is fundamentally different from human language. In fact, the narrowing of the perceived gap between animal communication and human language revealed by

- (60) recent research with chimpanzees and other animals calls into question not only the assumption that the difference between animal and human communication is qualitative rather than merely quantitative, but also the accompanying assumption that animals respond mechanically to stimuli, whereas humans speak with conscious understanding and intent.
- (65)

14. Both passages are primarily concerned with addressing which one of the following questions?

- (A) Are animals capable of deliberately prevaricating in order to achieve specific goals?
(B) Are the communications of animals characterized by conscious intention?
(C) What kinds of stimuli are most likely to elicit animal vocalizations?
(D) Are the communication systems of nonhuman primates qualitatively different from those of all other animals?
(E) Is there a scientific consensus about the differences between animal communication systems and human language?

15. In discussing the philosopher Maritain, the author of passage B seeks primarily to

- (A) describe an interpretation of animal communication that the author believes rests on a logical error
(B) suggest by illustration that there is conscious intention underlying the communicative signs employed by certain animals
(C) present an argument in support of the view that animal communication systems are spontaneous and creative
(D) furnish specific evidence against the theory that most animal communication is merely a conditioned reflex
(E) point to a noted authority on animal communication whose views the author regards with respect

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16. The author of passage B would be most likely to agree with which one of the following statements regarding researchers who subscribe to the position articulated in passage A?
- (A) They fail to recognize that humans often communicate without any clear idea of their listeners' mental states.
 - (B) Most of them lack the credentials needed to assess the relevant experimental evidence correctly.
 - (C) They ignore well-known evidence that animals do in fact practice deception.
 - (D) They make assumptions about matters that should be determined empirically.
 - (E) They falsely believe that all communication systems can be explained in terms of their evolutionary benefits.
17. Which one of the following assertions from passage A provides support for the view attributed to Maritain in passage B (lines 50–52)?
- (A) One function of language is to influence the behavior of others by changing what they think.
 - (B) Animal vocalizations may have evolved because they have the potential to alter listeners' behavior to the signaler's benefit.
 - (C) It is possible that chimpanzees may have the capacity to attribute mental states to others.
 - (D) There is no evidence that the male *Physalaemus* frog calls because he knows that his calls will affect the knowledge of other frogs.
 - (E) Macaques give alarm calls when predators approach and coo calls upon finding food.
18. The authors would be most likely to disagree over
- (A) the extent to which communication among humans involves the ability to perceive the mental states of others
 - (B) the importance of determining to what extent animal communication systems differ from human language
 - (C) whether human language and animal communication differ from one another qualitatively or merely in a matter of degree
 - (D) whether chimpanzees' vocalizations suggest that they may possess the capacity to attribute mental states to others
 - (E) whether animals' vocalizations evolved to alter the behavior of other animals in a way that benefits the signaler
19. Passage B differs from passage A in that passage B is more
- (A) optimistic regarding the ability of science to answer certain fundamental questions
 - (B) disapproving of the approach taken by others writing on the same general topic
 - (C) open-minded in its willingness to accept the validity of apparently conflicting positions
 - (D) supportive of ongoing research related to the question at hand
 - (E) circumspect in its refusal to commit itself to any positions with respect to still-unsettled research questions

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In contrast to the mainstream of U.S.

(5) historiography during the late nineteenth and early twentieth centuries, African American historians of the period, such as George Washington Williams and W. E. B. DuBois, adopted a transnational perspective. This was true for several reasons, not the least of which was the necessity of doing so if certain aspects of the history of African Americans in the United States were to be treated honestly.

(10) First, there was the problem of citizenship. Even after the adoption in 1868 of the Fourteenth Amendment to the U.S. Constitution, which defined citizenship, the question of citizenship for African Americans had not been genuinely resolved. Because
(15) of this, emigrationist sentiment was a central issue in black political discourse, and both issues were critical topics for investigation. The implications for historical scholarship and national identity were enormous. While some black leaders insisted on their right to U.S. citizenship, others called on black people to emigrate and find a homeland of their own. Most African Americans were certainly not willing to relinquish their claims to the benefits of U.S. citizenship, but many had reached a point of profound pessimism and had
(20) begun to question their allegiance to the United States.
(25) Mainstream U.S. historiography was firmly rooted in a nationalist approach during this period; the glorification of the nation and a focus on the nation-state as a historical force were dominant. The

(30) expanding spheres of influence of Europe and the United States prompted the creation of new genealogies of nations, new myths about the inevitability of nations, their “temperaments,” their destinies. African American intellectuals who
(35) confronted the nationalist approach to historiography were troubled by its implications. Some argued that imperialism was a natural outgrowth of nationalism and its view that a state’s strength is measured by the extension of its political power over colonial territory;
(40) the scramble for colonial empires was a distinct aspect of nationalism in the latter part of the nineteenth century.

Yet, for all their distrust of U.S. nationalism, most early black historians were themselves engaged in a
(45) sort of nation building. Deliberately or not, they contributed to the formation of a collective identity, reconstructing a glorious African past for the purposes of overturning degrading representations of blackness and establishing a firm cultural basis for a shared identity. Thus, one might argue that black
(50) historians’ internationalism was a manifestation of a kind of nationalism that posits a diasporic community, which, while lacking a sovereign territory or official language, possesses a single culture, however mythical, with singular historical roots. Many
(55) members of this diaspora saw themselves as an oppressed “nation” without a homeland, or they imagined Africa as home. Hence, these historians understood their task to be the writing of the history
(60) of a people scattered by force and circumstance, a history that began in Africa.

20. Which one of the following most accurately expresses the main idea of the passage?

- (A) Historians are now recognizing that the major challenge faced by African Americans in the late nineteenth and early twentieth centuries was the struggle for citizenship.
- (B) Early African American historians who practiced a transnational approach to history were primarily interested in advancing an emigrationist project.
- (C) U.S. historiography in the late nineteenth and early twentieth centuries was characterized by a conflict between African American historians who viewed history from a transnational perspective and mainstream historians who took a nationalist perspective.
- (D) The transnational perspective of early African American historians countered mainstream nationalist historiography, but it was arguably nationalist itself to the extent that it posited a culturally unified diasporic community.
- (E) Mainstream U.S. historians in the late nineteenth and early twentieth centuries could no longer justify their nationalist approach to history once they were confronted with the transnational perspective taken by African American historians.

21. Which one of the following phrases most accurately conveys the sense of the word “reconstructing” as it is used in line 47?

- (A) correcting a misconception about
- (B) determining the sequence of events in
- (C) investigating the implications of
- (D) rewarding the promoters of
- (E) shaping a conception of

22. Which one of the following is most strongly supported by the passage?

- (A) Emigrationist sentiment would not have been as strong among African Americans in the late nineteenth century had the promise of U.S. citizenship been fully realized for African Americans at that time.
- (B) Scholars writing the history of diasporic communities generally do not discuss the forces that initially caused the scattering of the members of those communities.
- (C) Most historians of the late nineteenth and early twentieth centuries endeavored to make the histories of the nations about which they wrote seem more glorious than they actually were.
- (D) To be properly considered nationalist, a historical work must ignore the ways in which one nation’s foreign policy decisions affected other nations.
- (E) A considerable number of early African American historians embraced nationalism and the inevitability of the dominance of the nation-state.

23. As it is described in the passage, the transnational approach employed by African American historians working in the late nineteenth and early twentieth centuries would be best exemplified by a historical study that
- (A) investigated the extent to which European and U.S. nationalist mythologies contradicted one another
 - (B) defined the national characters of the United States and several European nations by focusing on their treatment of minority populations rather than on their territorial ambitions
 - (C) recounted the attempts by the United States to gain control over new territories during the late nineteenth and early twentieth centuries
 - (D) considered the impact of emigrationist sentiment among African Americans on U.S. foreign policy in Africa during the late nineteenth century
 - (E) examined the extent to which African American culture at the turn of the century incorporated traditions that were common to a number of African cultures
24. The passage provides information sufficient to answer which one of the following questions?
- (A) Which African nations did early African American historians research in writing their histories of the African diaspora?
 - (B) What were some of the African languages spoken by the ancestors of the members of the African diasporic community who were living in the United States in the late nineteenth century?
 - (C) Over which territories abroad did the United States attempt to extend its political power in the latter part of the nineteenth century?
 - (D) Are there textual ambiguities in the Fourteenth Amendment that spurred the conflict over U.S. citizenship for African Americans?
 - (E) In what ways did African American leaders respond to the question of citizenship for African Americans in the latter part of the nineteenth century?
25. The author of the passage would be most likely to agree with which one of the following statements?
- (A) Members of a particular diasporic community have a common country of origin.
 - (B) Territorial sovereignty is not a prerequisite for the project of nation building.
 - (C) Early African American historians who rejected nationalist historiography declined to engage in historical myth-making of any kind.
 - (D) The most prominent African American historians in the late nineteenth and early twentieth centuries advocated emigration for African Americans.
 - (E) Historians who employed a nationalist approach focused on entirely different events from those studied and written about by early African American historians.
26. The main purpose of the second paragraph of the passage is to
- (A) explain why early African American historians felt compelled to approach historiography in the way that they did
 - (B) show that governmental actions such as constitutional amendments do not always have the desired effect
 - (C) support the contention that African American intellectuals in the late nineteenth century were critical of U.S. imperialism
 - (D) establish that some African American political leaders in the late nineteenth century advocated emigration as an alternative to fighting for the benefits of U.S. citizenship
 - (E) argue that the definition of citizenship contained in the Fourteenth Amendment to the U.S. Constitution is too limited
27. As it is presented in the passage, the approach to history taken by mainstream U.S. historians of the late nineteenth and early twentieth centuries is most similar to the approach exemplified in which one of the following?
- (A) An elected official writes a memo suggesting that because a particular course of action has been successful in the past, the government should continue to pursue that course of action.
 - (B) A biographer of a famous novelist argues that the precocity apparent in certain of the novelist's early achievements confirms that her success was attributable to innate talent.
 - (C) A doctor maintains that because a certain medication was developed expressly for the treatment of an illness, it is the best treatment for that illness.
 - (D) A newspaper runs a series of articles in order to inform the public about the environmentally hazardous practices of a large corporation.
 - (E) A scientist gets the same result from an experiment several times and therefore concludes that its chemical reactions always proceed in the observed fashion.

S T O P

IF YOU FINISH BEFORE TIME IS CALLED, YOU MAY CHECK YOUR WORK ON THIS SECTION ONLY.
DO NOT WORK ON ANY OTHER SECTION IN THE TEST.

SECTION II
Time—35 minutes
25 Questions

Directions: The questions in this section are based on the reasoning contained in brief statements or passages. For some questions, more than one of the choices could conceivably answer the question. However, you are to choose the best answer; that is, the response that most accurately and completely answers the question. You should not make assumptions that are by commonsense standards implausible, superfluous, or incompatible with the passage. After you have chosen the best answer, blacken the corresponding space on your answer sheet.

1. Mary to Jamal: You acknowledge that as the legitimate owner of this business I have the legal right to sell it whenever I wish. But also you claim that because loyal employees will suffer if I sell it, I therefore have no right to do so. Obviously, your statements taken together are absurd.

Mary's reasoning is most vulnerable to the criticism that she

- (A) overlooks the possibility that when Jamal claims that she has no right to sell the business, he simply means she has no right to do so at this time
- (B) overlooks the possibility that her employees also have rights related to the sale of the business
- (C) provides no evidence for the claim that she does have a right to sell the business
- (D) overlooks the possibility that Jamal is referring to two different kinds of right
- (E) attacks Jamal's character rather than his argument

2. Since there is no survival value in an animal's having an organ that is able to function when all its other organs have broken down to such a degree that the animal dies, it is a result of the efficiency of natural selection that no organ is likely to evolve in such a way that it greatly outlasts the body's other organs.

Of the following, which one illustrates a principle that is most similar to the principle illustrated by the passage?

- (A) A store in a lower-income neighborhood finds that it is unable to sell its higher-priced goods and so stocks them only when ordered by a customer.
- (B) The body of an animal with a deficient organ is often able to compensate for that deficiency when other organs perform the task the deficient one normally performs.
- (C) One car model produced by an automobile manufacturer has a life expectancy that is so much longer than its other models that its great popularity requires the manufacturer to stop producing some of the other models.
- (D) Athletes occasionally overdevelop some parts of their bodies to such a great extent that other parts of their bodies are more prone to injury as a result.
- (E) Automotive engineers find that it is not cost-effective to manufacture a given automobile part of such high quality that it outlasts all other parts of the automobile, as doing so would not raise the overall quality of the automobile.

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3. Commentator: If a political administration is both economically successful and successful at protecting individual liberties, then it is an overall success. Even an administration that fails to care for the environment may succeed overall if it protects individual liberties. So far, the present administration has not cared for the environment but has successfully protected individual liberties.

If all of the statements above are true, then which one of the following must be true?

- (A) The present administration is economically successful.
 - (B) The present administration is not an overall success.
 - (C) If the present administration is economically successful, then it is an overall success.
 - (D) If the present administration had been economically successful, it would have cared for the environment.
 - (E) If the present administration succeeds at environmental protection, then it will be an overall success.
4. The legislature is considering a proposed bill that would prohibit fishing in Eagle Bay. Despite widespread concern over the economic effect this ban would have on the local fishing industry, the bill should be enacted. The bay has one of the highest water pollution levels in the nation, and a recent study of the bay's fish found that 80 percent of them contained toxin levels that exceed governmental safety standards. Continuing to permit fishing in Eagle Bay could thus have grave effects on public health.

The argument proceeds by presenting evidence that

- (A) the toxic contamination of fish in Eagle Bay has had grave economic effects on the local fishing industry
- (B) the moral principle that an action must be judged on the basis of its foreseeable effects is usually correct
- (C) the opponents of the ban have failed to weigh properly its foreseeable negative effects against its positive ones
- (D) failure to enact the ban would carry with it unacceptable risks for the public welfare
- (E) the ban would reduce the level of toxins in the fish in Eagle Bay

5. Vandenburg: This art museum is not adhering to its purpose. Its founders intended it to devote as much attention to contemporary art as to the art of earlier periods, but its collection of contemporary art is far smaller than its other collections.

Simpson: The relatively small size of the museum's contemporary art collection is appropriate. It's an art museum, not an ethnographic museum designed to collect every style of every period. Its contemporary art collection is small because its curators believe that there is little high-quality contemporary art.

Which one of the following principles, if valid, most helps to justify the reasoning in Simpson's response to Vandenburg?

- (A) An art museum should collect only works that its curators consider to be of high artistic quality.
 - (B) An art museum should not collect any works that violate the purpose defined by the museum's founders.
 - (C) An art museum's purpose need not be to collect every style of every period.
 - (D) An ethnographic museum's purpose should be defined according to its curators' beliefs.
 - (E) The intentions of an art museum's curators should not determine what is collected by that museum.
6. Over the last five years, every new major alternative-energy initiative that initially was promised government funding has since seen that funding severely curtailed. In no such case has the government come even close to providing the level of funds initially earmarked for these projects. Since large corporations have made it a point to discourage alternative-energy projects, it is likely that the corporations' actions influenced the government's funding decisions.

Which one of the following, if true, most strengthens the reasoning above?

- (A) For the past two decades, most alternative-energy initiatives have received little or no government funding.
- (B) The funding initially earmarked for a government project is always subject to change, given the mechanisms by which the political process operates.
- (C) The only research projects whose government funding has been severely curtailed are those that large corporations have made it a point to discourage.
- (D) Some projects encouraged by large corporations have seen their funding severely curtailed over the last five years.
- (E) All large corporations have made it a point to discourage some forms of research.

7. Talbert: Chess is beneficial for school-age children. It is enjoyable, encourages foresight and logical thinking, and discourages carelessness, inattention, and impulsiveness. In short, it promotes mental maturity.

Sklar: My objection to teaching chess to children is that it diverts mental activity from something with societal value, such as science, into something that has no societal value.

Talbert's and Sklar's statements provide the strongest support for holding that they disagree with each other over whether

- (A) chess promotes mental maturity
 - (B) many activities promote mental maturity just as well as chess does
 - (C) chess is socially valuable and science is not
 - (D) children should be taught to play chess
 - (E) children who neither play chess nor study science are mentally immature
8. Marcia: Not all vegetarian diets lead to nutritional deficiencies. Research shows that vegetarians can obtain a full complement of proteins and minerals from nonanimal foods.

Theodora: You are wrong in claiming that vegetarianism cannot lead to nutritional deficiencies. If most people became vegetarians, some of those losing jobs due to the collapse of many meat-based industries would fall into poverty and hence be unable to afford a nutritionally adequate diet.

Theodora's reply to Marcia's argument is most vulnerable to criticism on the grounds that her reply

- (A) is directed toward disproving a claim that Marcia did not make
- (B) ignores the results of the research cited by Marcia
- (C) takes for granted that no meat-based industries will collapse unless most people become vegetarians
- (D) uses the word "diet" in a nontechnical sense whereas Marcia's argument uses this term in a medical sense
- (E) takes for granted that people losing jobs in meat-based industries would become vegetarians

9. Musicologist: Classification of a musical instrument depends on the mechanical action through which it produces music. So the piano is properly called a percussion instrument, not a stringed instrument. Even though the vibration of the piano's strings is what makes its sound, the strings are caused to vibrate by the impact of hammers.

Which one of the following most accurately expresses the main conclusion of the musicologist's argument?

- (A) Musical instruments should be classified according to the mechanical actions through which they produce sound.
 - (B) Musical instruments should not be classified based on the way musicians interact with them.
 - (C) Some people classify the piano as a stringed instrument because of the way the piano produces sound.
 - (D) The piano should be classified as a stringed instrument rather than as a percussion instrument.
 - (E) It is correct to classify the piano as a percussion instrument rather than as a stringed instrument.
10. In a vast ocean region, phosphorus levels have doubled in the past few decades due to agricultural runoff pouring out of a large river nearby. The phosphorus stimulates the growth of plankton near the ocean surface. Decaying plankton fall to the ocean floor, where bacteria devour them, consuming oxygen in the process. Due to the resulting oxygen depletion, few fish can survive in this region.

Which one of the following can be properly inferred from the information above?

- (A) The agricultural runoff pouring out of the river contributes to the growth of plankton near the ocean surface.
- (B) Before phosphorus levels doubled in the ocean region, most fish were able to survive in that region.
- (C) If agricultural runoff ceased pouring out of the river, there would be no bacteria on the ocean floor devouring decaying plankton.
- (D) The quantity of agricultural runoff pouring out of the river has doubled in the past few decades.
- (E) The amount of oxygen in a body of water is in general inversely proportional to the level of phosphorus in that body of water.

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11. Psychologists observing a shopping mall parking lot found that, on average, drivers spent 39 seconds leaving a parking space when another car was quietly waiting to enter it, 51 seconds if the driver of the waiting car honked impatiently, but only 32 seconds leaving a space when no one was waiting. This suggests that drivers feel possessive of their parking spaces even when leaving them, and that this possessiveness increases in reaction to indications that another driver wants the space.

Which one of the following, if true, most weakens the reasoning?

- (A) The more pressure most drivers feel because others are waiting for them to perform maneuvers with their cars, the less quickly they are able to perform them.
 - (B) The amount of time drivers spend entering a parking space is not noticeably affected by whether other drivers are waiting for them to do so, nor by whether those other drivers are honking impatiently.
 - (C) It is considerably more difficult and time-consuming for a driver to maneuver a car out of a parking space if another car waiting to enter that space is nearby.
 - (D) Parking spaces in shopping mall parking lots are unrepresentative of parking spaces in general with respect to the likelihood that other cars will be waiting to enter them.
 - (E) Almost any driver leaving a parking space will feel angry at another driver who honks impatiently, and this anger will influence the amount of time spent leaving the space.
12. Shark teeth are among the most common vertebrate fossils; yet fossilized shark skeletons are much less common—indeed, comparatively rare among fossilized vertebrate skeletons.

Which one of the following, if true, most helps to resolve the apparent paradox described above?

- (A) Unlike the bony skeletons of other vertebrates, shark skeletons are composed of cartilage, and teeth and bone are much more likely to fossilize than cartilage is.
- (B) The rare fossilized skeletons of sharks that are found are often found in areas other than those in which fossils of shark teeth are plentiful.
- (C) Fossils of sharks' teeth are quite difficult to distinguish from fossils of other kinds of teeth.
- (D) Some species of sharks alive today grow and lose many sets of teeth during their lifetimes.
- (E) The physical and chemical processes involved in the fossilization of sharks' teeth are as common as those involved in the fossilization of shark skeletons.

13. Critic: Photographers, by deciding which subjects to depict and how to depict them, express their own worldviews in their photographs, however realistically those photographs may represent reality. Thus, photographs are interpretations of reality.

The argument's conclusion is properly drawn if which one of the following is assumed?

- (A) Even representing a subject realistically can involve interpreting that subject.
 - (B) To express a worldview is to interpret reality.
 - (C) All visual art expresses the artist's worldview.
 - (D) Any interpretation of reality involves the expression of a worldview.
 - (E) Nonrealistic photographs, like realistic photographs, express the worldviews of the photographers who take them.
14. Geologists recently discovered marks that closely resemble worm tracks in a piece of sandstone. These marks were made more than half a billion years earlier than the earliest known traces of multicellular animal life. Therefore, the marks are probably the traces of geological processes rather than of worms.
- Which one of the following, if true, most weakens the argument?
- (A) It is sometimes difficult to estimate the precise age of a piece of sandstone.
 - (B) Geological processes left a substantial variety of marks in sandstone more than half a billion years before the earliest known multicellular animal life existed.
 - (C) There were some early life forms other than worms that are known to have left marks that are hard to distinguish from those found in the piece of sandstone.
 - (D) At the place where the sandstone was found, the only geological processes that are likely to mark sandstone in ways that resemble worm tracks could not have occurred at the time the marks were made.
 - (E) Most scientists knowledgeable about early animal life believe that worms are likely to have been among the earliest forms of multicellular animal life on Earth, but evidence of their earliest existence is scarce because they are composed solely of soft tissue.

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15. Often a type of organ or body structure is the only physically feasible means of accomplishing a given task, so it should be unsurprising if, like eyes or wings, that type of organ or body structure evolves at different times in a number of completely unrelated species. After all, whatever the difference of heritage and habitat, as organisms animals have fundamentally similar needs and so _____.

Which one of the following most logically completes the last sentence of the passage?

- (A) will often live in the same environment as other species quite different from themselves
 - (B) will in many instances evolve similar adaptations enabling them to satisfy these needs
 - (C) will develop adaptations allowing them to satisfy these needs
 - (D) will resemble other species having different biological needs
 - (E) will all develop eyes or wings as adaptations
16. Engineer: Thermophotovoltaic generators are devices that convert heat into electricity. The process of manufacturing steel produces huge amounts of heat that currently go to waste. So if steel-manufacturing plants could feed the heat they produce into thermophotovoltaic generators, they would greatly reduce their electric bills, thereby saving money.

Which one of the following is an assumption on which the engineer's argument depends?

- (A) There is no other means of utilizing the heat produced by the steel-manufacturing process that would be more cost effective than installing thermophotovoltaic generators.
- (B) Using current technology, it would be possible for steel-manufacturing plants to feed the heat they produce into thermophotovoltaic generators in such a way that those generators could convert at least some of that heat into electricity.
- (C) The amount steel-manufacturing plants would save on their electric bills by feeding heat into thermophotovoltaic generators would be sufficient to cover the cost of purchasing and installing those generators.
- (D) At least some steel-manufacturing plants rely on electricity as their primary source of energy in the steel-manufacturing process.
- (E) There are at least some steel-manufacturing plants that could greatly reduce their electricity bills only if they used some method of converting wasted heat or other energy from the steel-manufacturing process into electricity.

17. Herbalist: While standard antibiotics typically have just one active ingredient, herbal antibacterial remedies typically contain several. Thus, such herbal remedies are more likely to retain their effectiveness against new, resistant strains of bacteria than are standard antibiotics. For a strain of bacteria, the difficulty of developing resistance to an herbal antibacterial remedy is like a cook's difficulty in trying to prepare a single meal that will please all of several dozen guests, a task far more difficult than preparing one meal that will please a single guest.

In the analogy drawn in the argument above, which one of the following corresponds to a standard antibiotic?

- (A) a single guest
 - (B) several dozen guests
 - (C) the pleasure experienced by a single guest
 - (D) a cook
 - (E) the ingredients available to a cook
18. To find out how barn owls learn how to determine the direction from which sounds originate, scientists put distorting lenses over the eyes of young barn owls before the owls first opened their eyes. The owls with these lenses behaved as if objects making sounds were farther to the right than they actually were. Once the owls matured, the lenses were removed, yet the owls continued to act as if they misjudged the location of the source of sounds. The scientists consequently hypothesized that once a barn owl has developed an auditory scheme for estimating the point from which sounds originate, it ceases to use vision to locate sounds.
- The scientists' reasoning is vulnerable to which one of the following criticisms?
- (A) It fails to consider whether the owls' vision was permanently impaired by their having worn the lenses while immature.
 - (B) It assumes that the sense of sight is equally good in all owls.
 - (C) It attributes human reasoning processes to a nonhuman organism.
 - (D) It neglects to consider how similar distorting lenses might affect the behavior of other bird species.
 - (E) It uses as evidence experimental results that were irrelevant to the conclusion.

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19. As often now as in the past, newspaper journalists use direct or indirect quotation to report unsupported or false claims made by newsmakers. However, journalists are becoming less likely to openly challenge the veracity of such claims within their articles.

Each of the following, if true, helps to explain the trend in journalism described above EXCEPT:

- (A) Newspaper publishers have found that many readers will cancel a subscription simply because a view they take for granted has been disputed by the publication.
 - (B) The areas of knowledge on which journalists report are growing in specialization and diversity, while journalists themselves are not becoming more broadly knowledgeable.
 - (C) Persons supporting controversial views more and more frequently choose to speak only to reporters who seem sympathetic to their views.
 - (D) A basic principle of journalism holds that debate over controversial issues draws the attention of the public.
 - (E) Journalists who challenge the veracity of claims are often criticized for failing their professional obligation to be objective.
20. When people show signs of having a heart attack an electrocardiograph (EKG) is often used to diagnose their condition. In a study, a computer program for EKG diagnosis of heart attacks was pitted against a very experienced, highly skilled cardiologist. The program correctly diagnosed a significantly higher proportion of the cases that were later confirmed to be heart attacks than did the cardiologist. Interpreting EKG data, therefore, should be left to computer programs.

Which one of the following, if true, most weakens the argument?

- (A) Experts agreed that the cardiologist made few obvious mistakes in reading and interpreting the EKG data.
- (B) The practice of medicine is as much an art as a science, and computer programs are not easily adapted to making subjective judgments.
- (C) The cardiologist correctly diagnosed a significantly higher proportion of the cases in which no heart attack occurred than did the computer program.
- (D) In a considerable percentage of cases, EKG data alone are insufficient to enable either computer programs or cardiologists to make accurate diagnoses.
- (E) The cardiologist in the study was unrepresentative of cardiologists in general with respect to skill and experience.

21. A government study indicates that raising speed limits to reflect the actual average speeds of traffic on level, straight stretches of high-speed roadways reduces the accident rate. Since the actual average speed for level, straight stretches of high-speed roadways tends to be 120 kilometers per hour (75 miles per hour), that should be set as a uniform national speed limit for level, straight stretches of all such roadways.

Which one of the following principles, if valid, most helps to justify the reasoning above?

- (A) Uniform national speed limits should apply only to high-speed roadways.
- (B) Traffic laws applying to high-speed roadways should apply uniformly across the nation.
- (C) A uniform national speed limit for high-speed roadways should be set only if all such roadways have roughly equal average speeds of traffic.
- (D) Long-standing laws that are widely violated are probably not good laws.
- (E) Any measure that reduces the rate of traffic accidents should be implemented.

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22. Psychiatrist: In treating first-year students at this university, I have noticed that those reporting the highest levels of spending on recreation score at about the same level on standard screening instruments for anxiety and depression as those reporting the lowest levels of spending on recreation. This suggests that the first-year students with high levels of spending on recreation could reduce that spending without increasing their anxiety or depression.

Each of the following, if true, strengthens the psychiatrist's argument EXCEPT:

- (A) At other universities, first-year students reporting the highest levels of spending on recreation also show the same degree of anxiety and depression as do those reporting the lowest levels of such spending.
- (B) Screening of first-year students at the university who report moderate levels of spending on recreation reveals that those students are less anxious and depressed than both those with the highest and those with the lowest levels of spending on recreation.
- (C) Among adults between the ages of 40 and 60, increased levels of spending on recreation are strongly correlated with decreased levels of anxiety and depression.
- (D) The screening instruments used by the psychiatrist are extremely accurate in revealing levels of anxiety and depression among university students.
- (E) Several of the psychiatrist's patients who are first-year students at the university have reduced their spending on recreation from very high levels to very low levels without increasing their anxiety or depression.

23. Every brick house on River Street has a front yard. Most of the houses on River Street that have front yards also have two stories. So most of the brick houses on River Street have two stories.

Which one of the following is most appropriate as an analogy demonstrating that the reasoning in the argument above is flawed?

- (A) By that line of reasoning, we could conclude that most politicians have run for office, since all legislators are politicians and most legislators have run for office.
- (B) By that line of reasoning, we could conclude that most public servants are legislators, since most legislators have run for office and most politicians who have run for office are public servants.
- (C) By that line of reasoning, we could conclude that not every public servant has run for office, since every legislator is a public servant but some public servants are not legislators.
- (D) By that line of reasoning, we could conclude that most legislators have never run for office, since most public servants have never run for office and all legislators are public servants.
- (E) By that line of reasoning, we could conclude that most legislators are not public servants, since most public servants have not run for office and most legislators have run for office.

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24. Historian: It is unlikely that someone would see history as the working out of moral themes unless he or she held clear and unambiguous moral beliefs. However, one's inclination to morally judge human behavior decreases as one's knowledge of history increases. Consequently, the more history a person knows, the less likely that person is to view history as the working out of moral themes.

The conclusion of the argument is properly drawn if which one of the following is assumed?

- (A) Historical events that fail to elicit moral disapproval are generally not considered to exemplify a moral theme.
- (B) The less inclined one is to morally judge human behavior, the less likely it is that one holds clear and unambiguous moral beliefs.
- (C) Only those who do not understand human history attribute moral significance to historical events.
- (D) The more clear and unambiguous one's moral beliefs, the more likely one is to view history as the working out of moral themes.
- (E) People tend to be less objective regarding a subject about which they possess extensive knowledge than regarding a subject about which they do not possess extensive knowledge.

25. A recent poll revealed that most students at our university prefer that the university, which is searching for a new president, hire someone who has extensive experience as a university president. However, in the very same poll, the person most students chose from among a list of leading candidates as the one they would most like to see hired was someone who has never served as a university president.

Which one of the following, if true, most helps to account for the apparent discrepancy in the students' preferences?

- (A) Because several of the candidates listed in the poll had extensive experience as university presidents, not all of the candidates could be differentiated on this basis alone.
- (B) Most of the candidates listed in the poll had extensive experience as university presidents.
- (C) Students taking the poll had fewer candidates to choose from than were currently being considered for the position.
- (D) Most of the students taking the poll did not know whether any of the leading candidates listed in the poll had ever served as a university president.
- (E) Often a person can be well suited to a position even though they have relatively little experience in such a position.

S T O P

IF YOU FINISH BEFORE TIME IS CALLED, YOU MAY CHECK YOUR WORK ON THIS SECTION ONLY.
DO NOT WORK ON ANY OTHER SECTION IN THE TEST.



SECTION III
Time—35 minutes
25 Questions

Directions: The questions in this section are based on the reasoning contained in brief statements or passages. For some questions, more than one of the choices could conceivably answer the question. However, you are to choose the best answer; that is, the response that most accurately and completely answers the question. You should not make assumptions that are by commonsense standards implausible, superfluous, or incompatible with the passage. After you have chosen the best answer, blacken the corresponding space on your answer sheet.

1. A government ought to protect and encourage free speech, because free speech is an activity that is conducive to a healthy nation and thus is in the best interest of its people.

The main conclusion above follows logically if which one of the following is assumed?

- (A) An activity that is in the best interest of the people ought to be protected and encouraged by a nation's government.
 - (B) Basic, inalienable rights of the people ought to be protected and encouraged by government.
 - (C) An activity that helps a government to govern ought to be protected and encouraged by it.
 - (D) A government ought to protect and encourage an activity that is conducive to the interests of that government.
 - (E) Universal human rights that are in the best interest of the people ought to be protected and encouraged by a nation's government.
2. The current theory about earthquakes holds that they are caused by adjoining plates of rock sliding past each other; the plates are pressed together until powerful forces overcome the resistance. As plausible as this may sound, at least one thing remains mysterious on this theory. The overcoming of such resistance should create enormous amounts of heat. But so far no increases in temperature unrelated to weather have been detected following earthquakes.

Which one of the following most accurately expresses the main point of the argument?

- (A) No increases in temperature have been detected following earthquakes.
- (B) The current theory does not fully explain earthquake data.
- (C) No one will ever be sure what the true cause of earthquakes is.
- (D) Earthquakes produce enormous amounts of heat that have so far gone undetected.
- (E) Contrary to the current theory, earthquakes are not caused by adjoining plates of rock sliding past one another.

3. Legal theorist: It is unreasonable to incarcerate anyone for any other reason than that he or she is a serious threat to the property or lives of other people. The breaking of a law does not justify incarceration, for lawbreaking proceeds either from ignorance of the law or of the effects of one's actions, or from the free choice of the lawbreaker. Obviously mere ignorance cannot justify incarcerating a lawbreaker, and even free choice on the part of the lawbreaker fails to justify incarceration, for free choice proceeds from the desires of an agent, and the desires of an agent are products of genetics and environmental conditioning, neither of which is controlled by the agent.

The claim in the first sentence of the passage plays which one of the following roles in the argument?

- (A) It is offered as a premise that helps to show that no actions are under the control of the agent.
- (B) It is offered as background information necessary to understand the argument.
- (C) It is offered as the main conclusion that the argument is designed to establish.
- (D) It is offered as evidence for the stated claim that protection of life and property is more important than retribution for past illegal acts.
- (E) It is offered as evidence for the stated claim that lawbreaking proceeds from either ignorance of the law, or ignorance of the effects of one's actions, or free choice.

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4. A certain gene can be stimulated by chemicals in cigarette smoke, causing lung cells to metabolize the chemicals in a way that makes the cells cancerous. Yet smokers in whom this gene is not stimulated have as high a risk of developing lung cancer from smoking as other smokers do.

If the statements above are true, it can be concluded on the basis of them that

- (A) stimulation of the gene by chemicals in cigarette smoke is not the only factor affecting the risk for smokers of developing lung cancer
 - (B) nonsmokers have as high a risk of developing lung cancer as do smokers in whom the gene has not been stimulated
 - (C) smokers in whom the gene has been stimulated are more likely to develop lung cancer than are other smokers
 - (D) the gene is more likely to be stimulated by chemicals in cigarette smoke than by other chemicals
 - (E) smokers are less likely to develop lung cancer if they do not have the gene
5. In a poll of eligible voters conducted on the eve of a mayoral election, more of those polled stated that they favored Panitch than stated that they favored any other candidate. Despite this result, another candidate, Yeung, defeated Panitch by a comfortable margin.

Each of the following, if true, contributes to a resolution of the discrepancy described above EXCEPT:

- (A) Of Yeung's supporters, a smaller percentage were eligible to vote than the percentage of Panitch's supporters who were eligible to vote.
- (B) A third candidate, Mulhem, conducted a press conference on the morning of the election and withdrew from the race.
- (C) The poll's questions were designed by staff members of Panitch's campaign.
- (D) Of the poll respondents supporting Yeung, 70 percent described the election as "important" or "very important," while 30 percent of respondents supporting Panitch did the same.
- (E) The poll, conducted on a Monday, surveyed persons in the downtown area, and the percentage of Yeung's supporters who work downtown is lower than that of Panitch's supporters.

6. Commissioner: Budget forecasters project a revenue shortfall of a billion dollars in the coming fiscal year. Since there is no feasible way to increase the available funds, our only choice is to decrease expenditures. The plan before you outlines feasible cuts that would yield savings of a billion dollars over the coming fiscal year. We will be able to solve the problem we face, therefore, only if we adopt this plan.

The reasoning in the commissioner's argument is flawed because this argument

- (A) relies on information that is far from certain
 - (B) confuses being an adequate solution with being a required solution
 - (C) inappropriately relies on the opinions of experts
 - (D) inappropriately employs language that is vague
 - (E) takes for granted that there is no way to increase available funds
7. Critic: Emily Dickinson's poetry demonstrates that meaning cannot reside entirely within a poem itself, but is always the unique result of an interaction between a reader's system of beliefs and the poem; and, of course, any two readers from different cultures or eras have radically different systems of beliefs.

If the critic's statements are true, each of the following could be true EXCEPT:

- (A) A reader's interpretation of a poem by Dickinson is affected by someone else's interpretation of it.
- (B) A modern reader and a nineteenth-century reader interpret one of Shakespeare's sonnets in the same way.
- (C) A reader's interpretation of a poem evolves over time.
- (D) Two readers from the same era arrive at different interpretations of the same poem.
- (E) A reader's enjoyment of a poem is enhanced by knowing the poet's interpretation of it.

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8. Archaeologist: The fact that the ancient Egyptians and the Maya both built pyramids is often taken as evidence of a historical link between Old- and New-World civilizations that is earlier than any yet documented. But while these buildings are similar to each other, there are important differences in both design and function. The Egyptian pyramids were exclusively tombs for rulers, whereas the Mayan pyramids were used as temples. This shows conclusively that there was no such link between Old- and New-World civilizations.

Which one of the following most accurately describes a flaw in the archaeologist's argument?

- (A) The argument equivocates with respect to the term "evidence."
 - (B) The argument appeals to emotion rather than to reason.
 - (C) The argument assumes the conclusion it is trying to prove.
 - (D) The argument incorrectly relies on words whose meanings are vague or imprecise.
 - (E) The argument presumes that no other evidence is relevant to the issue at hand.
9. Manuscripts written by first-time authors generally do not get serious attention by publishers except when these authors happen to be celebrities. My manuscript is unlikely to be taken seriously by publishers for I am a first-time author who is not a celebrity.

The structure of which one of the following arguments is most similar to the structure of the argument above?

- (A) Challengers generally do not win elections unless the incumbent has become very unpopular. The incumbent in this election has become very unpopular. Therefore, the challenger may win.
- (B) Fruit salad that contains bananas is ordinarily a boring dish unless it contains two or more exotic fruits. This fruit salad has bananas in it, and the only exotic fruit it has is guava. Thus, it will probably be boring.
- (C) Thursday's city council meeting is likely to be poorly attended. Traditionally, council meetings are sparsely attended if zoning issues are the only ones on the agenda. The agenda for Thursday is exclusively devoted to zoning.
- (D) The bulk of an estate generally goes to the spouse, if surviving, and otherwise goes to the surviving children. In this case there is no surviving spouse; hence the bulk of the estate is likely to go to the surviving children.
- (E) Normally about 40 percent of the deer population will die over the winter unless it is extremely mild. The percentage of the deer population that died over the recent winter was the normal 40 percent. I conclude that the recent winter was not unusually mild.

10. Twelve healthy volunteers with the Apo-A-IV-1 gene and twelve healthy volunteers who instead have the Apo-A-IV-2 gene each consumed a standard diet supplemented daily by a high-cholesterol food. A high level of cholesterol in the blood is associated with an increased risk of heart disease. After three weeks, the blood cholesterol levels of the subjects in the second group were unchanged, whereas the blood cholesterol levels of those with the Apo-A-IV-1 gene rose 20 percent.

Which one of the following is most strongly supported by the information above?

- (A) Approximately half the population carries a gene that lowers cholesterol levels.
- (B) Most of those at risk of heart disease may be able to reduce their risk by adopting a low-cholesterol diet.
- (C) The bodies of those who have the Apo-A-IV-2 gene excrete cholesterol when blood cholesterol reaches a certain level.
- (D) The presence of the Apo-A-IV-1 gene seems to indicate that a person has a lower risk of heart disease.
- (E) The presence of the Apo-A-IV-2 gene may inhibit the elevation of blood cholesterol.

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11. High school students who feel that they are not succeeding in school often drop out before graduating and go to work. Last year, however, the city's high school dropout rate was significantly lower than the previous year's rate. This is encouraging evidence that the program instituted two years ago to improve the morale of high school students has begun to take effect to reduce dropouts.

Which one of the following, if true about the last year, most seriously weakens the argument?

- (A) There was a recession that caused a high level of unemployment in the city.
 - (B) The morale of students who dropped out of high school had been low even before they reached high school.
 - (C) As in the preceding year, more high school students remained in school than dropped out.
 - (D) High schools in the city established placement offices to assist their graduates in obtaining employment.
 - (E) The antidropout program was primarily aimed at improving students' morale in those high schools with the highest dropout rates.
12. The television show *Henry* was not widely watched until it was scheduled for Tuesday evenings immediately after *That's Life*, the most popular show on television. During the year after the move, *Henry* was consistently one of the ten most-watched shows on television. Since *Henry's* recent move to Wednesday evenings, however, it has been watched by far fewer people. We must conclude that *Henry* was widely watched before the move to Wednesday evenings because it followed *That's Life* and not because people especially liked it.

Which one of the following, if true, most strengthens the argument?

- (A) *Henry* has been on the air for three years, but *That's Life* has been on the air for only two years.
- (B) The show that replaced *Henry* on Tuesdays has persistently had a low number of viewers in the Tuesday time slot.
- (C) The show that now follows *That's Life* on Tuesdays has double the number of viewers it had before being moved.
- (D) After its recent move to Wednesday, *Henry* was aired at the same time as the second most popular show on television.
- (E) *That's Life* was not widely watched during the first year it was aired.

Questions 13-14

Joseph: My encyclopedia says that the mathematician Pierre de Fermat died in 1665 without leaving behind any written proof for a theorem that he claimed nonetheless to have proved. Probably this alleged theorem simply cannot be proved, since—as the article points out—no one else has been able to prove it. Therefore it is likely that Fermat was either lying or else mistaken when he made his claim.

Laura: Your encyclopedia is out of date. Recently someone has in fact proved Fermat's theorem. And since the theorem is provable, your claim—that Fermat was lying or mistaken—clearly is wrong.

13. Joseph's statement that "this alleged theorem simply cannot be proved" plays which one of the following roles in his argument?
- (A) an assumption for which no support is offered
 - (B) a subsidiary conclusion on which his argument's main conclusion is based
 - (C) a potential objection that his argument anticipates and attempts to answer before it is raised
 - (D) the principal claim that his argument is structured to refute
 - (E) background information that neither supports nor undermines his argument's conclusion
14. Which one of the following most accurately describes a reasoning error in Laura's argument?
- (A) It purports to establish its conclusion by making a claim that, if true, would actually contradict that conclusion.
 - (B) It mistakenly assumes that the quality of a person's character can legitimately be taken to guarantee the accuracy of the claims that person has made.
 - (C) It mistakes something that is necessary for its conclusion to follow for something that ensures that the conclusion follows.
 - (D) It uses the term "provable" without defining it.
 - (E) It fails to distinguish between a true claim that has mistakenly been believed to be false and a false claim that has mistakenly been believed to be true.

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15. It is not good for a university to have class sizes that are very large or very small, or to have professors with teaching loads that are very light or very heavy. After all, crowded classes and overworked faculty cripple the institution's ability to recruit and retain both qualified students and faculty.

Which one of the following, if added as a premise to the argument, most helps to justify its conclusion?

- (A) Professors who have very high teaching loads tend to focus their remaining time on research.
- (B) Classes that have very low numbers of students tend to have a lot of classroom discussion.
- (C) Very small class sizes or very light teaching loads indicate incompetence in classroom instruction.
- (D) Very small class sizes or very light teaching loads are common in the worst and the best universities.
- (E) Professors with very light teaching loads have no more office hours for students than professors with normal teaching loads.

16. Sales manager: The highest priority should be given to the needs of the sales department, because without successful sales the company as a whole would fail.

Shipping manager: There are several departments other than sales that also must function successfully for the company to succeed. It is impossible to give the highest priority to all of them.

The shipping manager criticizes the sales manager's argument by pointing out

- (A) that the sales department taken by itself is not critical to the company's success as a whole
- (B) the ambiguity of the term "highest priority"
- (C) that departments other than sales are more vital to the company's success
- (D) an absurd consequence of its apparent assumption that a department's necessity earns it the highest priority
- (E) that the sales manager makes a generalization from an atypical case

17. Researchers have found that people who drink five or more cups of coffee a day have a risk of heart disease 2.5 times the average after corrections are made for age and smoking habits. Members of the research team say that, on the basis of their findings, they now limit their own daily coffee intake to two cups.

Which one of the following, if true, indicates that the researchers' precaution might NOT have the result of decreasing their risk of heart disease?

- (A) The study found that for people who drank three or more cups of coffee daily, the additional risk of heart disease increased with each extra daily cup.
- (B) Per capita coffee consumption has been declining over the past 20 years because of the increasing popularity of soft drinks and also because of health worries.
- (C) The study did not collect information that would show whether variations in level of coffee consumption are directly related to variations in level of stress, a major causal factor in heart disease.
- (D) Subsequent studies have consistently shown that heavy smokers consume coffee at about 3 times the rate of nonsmokers.
- (E) Subsequent studies have shown that heavy coffee consumption tends to cause an elevated blood-cholesterol level, an immediate indicator of increased risk of heart disease.

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18. People who have political power tend to see new technologies as a means of extending or protecting their power, whereas they generally see new ethical arguments and ideas as a threat to it. Therefore, technical ingenuity usually brings benefits to those who have this ingenuity, whereas ethical inventiveness brings only pain to those who have this inventiveness.

Which one of the following statements, if true, most strengthens the argument?

- (A) Those who offer new ways of justifying current political power often reap the benefits of their own innovations.
- (B) Politically powerful people tend to reward those who they believe are useful to them and to punish those who they believe are a threat.
- (C) Ethical inventiveness and technical ingenuity are never possessed by the same individuals.
- (D) New technologies are often used by people who strive to defeat those who currently have political power.
- (E) Many people who possess ethical inventiveness conceal their novel ethical arguments for fear of retribution by the politically powerful.

19. Birds need so much food energy to maintain their body temperatures that some of them spend most of their time eating. But a comparison of a bird of a seed-eating species to a bird of a nectar-eating species that has the same overall energy requirement would surely show that the seed-eating bird spends more time eating than does the nectar-eating bird, since a given amount of nectar provides more energy than does the same amount of seeds.

The argument relies on which one of the following questionable assumptions?

- (A) Birds of different species do not generally have the same overall energy requirements as each other.
- (B) The nectar-eating bird does not sometimes also eat seeds.
- (C) The time it takes for the nectar-eating bird to eat a given amount of nectar is not longer than the time it takes the seed-eating bird to eat the same amount of seeds.
- (D) The seed-eating bird does not have a lower body temperature than that of the nectar-eating bird.
- (E) The overall energy requirements of a given bird do not depend on factors such as the size of the bird, its nest-building habits, and the climate of the region in which it lives.

20. Consumer advocate: The introduction of a new drug into the marketplace should be contingent upon our having a good understanding of its social impact. However, the social impact of the newly marketed antihistamine is far from clear. It is obvious, then, that there should be a general reduction in the pace of bringing to the marketplace new drugs that are now being tested.

Which one of the following, if true, most strengthens the argument?

- (A) The social impact of the new antihistamine is much better understood than that of most new drugs being tested.
- (B) The social impact of some of the new drugs being tested is poorly understood.
- (C) The economic success of some drugs is inversely proportional to how well we understand their social impact.
- (D) The new antihistamine is chemically similar to some of the new drugs being tested.
- (E) The new antihistamine should be on the market only if most new drugs being tested should be on the market also.

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21. Tina: For centuries oceans and human eccentricity have been linked in the literary and artistic imagination. Such linkage is probably due to the European Renaissance practice of using ships as asylums for the socially undesirable.

Sergio: No. Oceans have always been viewed as mysterious and unpredictable—qualities that people have invariably associated with eccentricity.

Tina's and Sergio's statements lend the most support to the claim that they disagree about which one of the following statements?

- (A) Eccentric humans were considered socially undesirable during the European Renaissance.
- (B) Oceans have always been viewed as mysterious and unpredictable.
- (C) The linkage between oceans and eccentricity explains the European Renaissance custom of using ships as asylums.
- (D) People have never attributed the same qualities to oceans and eccentrics.
- (E) The linkage between oceans and eccentricity predates the European Renaissance.

22. In a recent study, a group of subjects had their normal daily caloric intake increased by 25 percent. This increase was entirely in the form of alcohol. Another group of similar subjects had alcohol replace nonalcoholic sources of 25 percent of their normal daily caloric intake. All subjects gained body fat over the course of the study, and the amount of body fat gained was the same for both groups.

Which one of the following is most strongly supported by the information above?

- (A) Alcohol is metabolized more quickly by the body than are other foods or drinks.
- (B) In the general population, alcohol is the primary cause of gains in body fat.
- (C) An increased amount of body fat does not necessarily imply a weight gain.
- (D) Body fat gain is not dependent solely on the number of calories one consumes.
- (E) The proportion of calories from alcohol in a diet is more significant for body fat gain than are the total calories from alcohol.

23. When investigators discovered that the director of a local charity had repeatedly overstated the number of people his charity had helped, the director accepted responsibility for the deception. However, the investigators claimed that journalists were as much to blame as the director was for inflating the charity's reputation, since they had naïvely accepted what the director told them, and simply reported as fact the numbers he gave them.

Which one of the following principles, if valid, most helps to justify the investigators' claim?

- (A) Anyone who works for a charitable organization is obliged to be completely honest about the activities of that organization.
- (B) Anyone who knowingly aids a liar by trying to conceal the truth from others is also a liar.
- (C) Anyone who presents as factual a story that turns out to be untrue without first attempting to verify that story is no less responsible for the consequences of that story than anyone else is.
- (D) Anyone who lies in order to advance his or her own career is more deserving of blame than someone who lies in order to promote a good cause.
- (E) Anyone who accepts responsibility for a wrongful act that he or she committed is less deserving of blame than someone who tries to conceal his or her own wrongdoing.

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24. Telephone companies are promoting “voice mail” as an alternative to the answering machine. By recording messages from callers when a subscriber does not have access to his or her telephone, voice mail provides a service similar to that of an answering machine. The companies promoting this service argue that it will soon make answering machines obsolete, since it is much more convenient, more flexible, and less expensive than an answering machine.

Which one of the following, if true, most calls into question the argument made by the companies promoting voice mail?

- (A) Unlike calls made to owners of answering machines, all telephone calls made to voice-mail subscribers are completed, even if the line called is in use at the time of the call.
- (B) The surge in sales of answering machines occurred shortly after they were first introduced to the electronics market.
- (C) Once a telephone customer decides to subscribe to voice mail, that customer can cancel the service at any time.
- (D) Answering machines enable the customer to hear who is calling before the customer decides whether to answer the telephone, a service voice mail does not provide.
- (E) The number of messages a telephone answering machine can record is limited by the length of the magnetic tape on which calls are recorded.

25. The judgment that an artist is great always rests on assessments of the work the artist has produced. A series of great works is the only indicator of greatness. Therefore, to say that an artist is great is just to summarize the quality of his or her known works, and the artist’s greatness can provide no basis for predicting the quality of the artist’s unknown or future works.

Which one of the following contains questionable reasoning most similar to that in the argument above?

- (A) The only way of knowing whether someone has a cold is to observe symptoms. Thus, when a person is said to have a cold, this means only that he or she has displayed the symptoms of a cold, and no prediction about the patient’s future symptoms is justified.
- (B) Although colds are very common, there are some people who never or only very rarely catch colds. Clearly these people must be in some way physiologically different from people who catch colds frequently.
- (C) Someone who has a cold is infected by a cold virus. No one can be infected by the same cold virus twice, but there are indefinitely many different cold viruses. Therefore, it is not possible to predict from a person’s history of infection how susceptible he or she will be in the future.
- (D) The viruses that cause colds are not all the same, and they differ in their effects. Therefore, although it may be certain that a person has a cold, it is impossible to predict how the cold will progress.
- (E) Unless a person displays cold symptoms, it cannot properly be said that the person has a cold. But each of the symptoms of a cold is also the symptom of some other disease. Therefore, one can never be certain that a person has a cold.

S T O P

IF YOU FINISH BEFORE TIME IS CALLED, YOU MAY CHECK YOUR WORK ON THIS SECTION ONLY.
DO NOT WORK ON ANY OTHER SECTION IN THE TEST.

SECTION IV
Time—35 minutes
23 Questions

Directions: Each group of questions in this section is based on a set of conditions. In answering some of the questions, it may be useful to draw a rough diagram. Choose the response that most accurately and completely answers each question and blacken the corresponding space on your answer sheet.

Questions 1–5

Exactly six workers—Faith, Gus, Hannah, Juan, Kenneth, and Lisa—will travel to a business convention in two cars—car 1 and car 2. Each car must carry at least two of the workers, one of whom will be assigned to drive. For the entire trip, the workers will comply with an assignment that also meets the following constraints:

Either Faith or Gus must drive the car in which Hannah travels.

Either Faith or Kenneth must drive the car in which Juan travels.

Gus must travel in the same car as Lisa.

1. Which one of the following is a possible assignment of the workers to the cars?
 - (A) car 1: Faith (driver), Hannah, and Juan
car 2: Gus (driver), Kenneth, and Lisa
 - (B) car 1: Faith (driver), Hannah, and Kenneth
car 2: Lisa (driver), Gus, and Juan
 - (C) car 1: Faith (driver), Juan, Kenneth, and Lisa
car 2: Gus (driver) and Hannah
 - (D) car 1: Faith (driver) and Juan
car 2: Kenneth (driver), Gus, Hannah, and Lisa
 - (E) car 1: Gus (driver), Hannah, and Lisa
car 2: Juan (driver), Faith, and Kenneth
2. The two workers who drive the cars CANNOT be
 - (A) Faith and Gus
 - (B) Faith and Kenneth
 - (C) Faith and Lisa
 - (D) Gus and Kenneth
 - (E) Kenneth and Lisa
3. If Lisa drives one of the cars, then which one of the following could be true?
 - (A) Faith travels in the same car as Kenneth.
 - (B) Faith travels in the same car as Lisa.
 - (C) Gus travels in the same car as Hannah.
 - (D) Gus travels in the same car as Juan.
 - (E) Hannah travels in the same car as Lisa.
4. If Faith travels with two other workers in car 1, and if Faith is not the driver, then the person in car 1 other than Faith and the driver must be
 - (A) Gus
 - (B) Hannah
 - (C) Juan
 - (D) Kenneth
 - (E) Lisa
5. Which one of the following CANNOT be true?
 - (A) Gus is the only person other than the driver in one of the cars.
 - (B) Hannah is the only person other than the driver in one of the cars.
 - (C) Juan is the only person other than the driver in one of the cars.
 - (D) Kenneth is the only person other than the driver in one of the cars.
 - (E) Lisa is the only person other than the driver in one of the cars.

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Questions 6–11

An archaeologist has six ancient artifacts—a figurine, a headdress, a jar, a necklace, a plaque, and a tureen—no two of which are the same age. She will order them from first (oldest) to sixth (most recent). The following has already been determined:

The figurine is older than both the jar and the headdress.

The necklace and the jar are both older than the tureen. Either the plaque is older than both the headdress and the necklace, or both the headdress and the necklace are older than the plaque.

6. Which one of the following could be the artifacts in the order of their age, from first to sixth?
 - (A) figurine, headdress, jar, necklace, plaque, tureen
 - (B) figurine, jar, plaque, headdress, tureen, necklace
 - (C) figurine, necklace, plaque, headdress, jar, tureen
 - (D) necklace, jar, figurine, headdress, plaque, tureen
 - (E) plaque, tureen, figurine, necklace, jar, headdress
7. Exactly how many of the artifacts are there any one of which could be first?
 - (A) one
 - (B) two
 - (C) three
 - (D) four
 - (E) five
8. Which one of the following artifacts CANNOT be fourth?
 - (A) figurine
 - (B) headdress
 - (C) jar
 - (D) necklace
 - (E) plaque
9. If the figurine is third, which one of the following must be second?
 - (A) headdress
 - (B) jar
 - (C) necklace
 - (D) plaque
 - (E) tureen
10. If the plaque is first, then exactly how many artifacts are there any one of which could be second?
 - (A) one
 - (B) two
 - (C) three
 - (D) four
 - (E) five
11. Which one of the following, if substituted for the information that the necklace and the jar are both older than the tureen, would have the same effect in determining the order of the artifacts?
 - (A) The tureen is older than the headdress but not as old as the figurine.
 - (B) The figurine and the necklace are both older than the tureen.
 - (C) The necklace is older than the tureen if and only if the jar is.
 - (D) All of the artifacts except the headdress and the plaque must be older than the tureen.
 - (E) The plaque is older than the necklace if and only if the plaque is older than the tureen.

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Questions 12–17

The coach of a women's track team must determine which four of five runners—Quinn, Ramirez, Smith, Terrell, and Uzoma—will run in the four races of an upcoming track meet. Each of the four runners chosen will run in exactly one of the four races—the first, second, third, or fourth. The coach's selection is bound by the following constraints:

If Quinn runs in the track meet, then Terrell runs in the race immediately after the race in which Quinn runs. Smith does not run in either the second race or the fourth race.

If Uzoma does not run in the track meet, then Ramirez runs in the second race.

If Ramirez runs in the second race, then Uzoma does not run in the track meet.

12. Which one of the following could be the order in which the runners run, from first to fourth?

(A) Uzoma, Ramirez, Quinn, Terrell
(B) Terrell, Smith, Ramirez, Uzoma
(C) Smith, Ramirez, Terrell, Quinn
(D) Ramirez, Uzoma, Smith, Terrell
(E) Quinn, Terrell, Smith, Ramirez

13. Which one of the following runners must the coach select to run in the track meet?

(A) Quinn
(B) Ramirez
(C) Smith
(D) Terrell
(E) Uzoma

14. The question of which runners will be chosen to run in the track meet and in what races they will run can be completely resolved if which one of the following is true?

(A) Ramirez runs in the first race.
(B) Ramirez runs in the second race.
(C) Ramirez runs in the third race.
(D) Ramirez runs in the fourth race.
(E) Ramirez does not run in the track meet.

15. Which one of the following CANNOT be true?

(A) Ramirez runs in the race immediately before the race in which Smith runs.
(B) Smith runs in the race immediately before the race in which Quinn runs.
(C) Smith runs in the race immediately before the race in which Terrell runs.
(D) Terrell runs in the race immediately before the race in which Ramirez runs.
(E) Uzoma runs in the race immediately before the race in which Terrell runs.

16. If Uzoma runs in the first race, then which one of the following must be true?

(A) Quinn does not run in the track meet.
(B) Smith does not run in the track meet.
(C) Quinn runs in the second race.
(D) Terrell runs in the second race.
(E) Ramirez runs in the fourth race.

17. If both Quinn and Smith run in the track meet, then how many of the runners are there any one of whom could be the one who runs in the first race?

(A) one
(B) two
(C) three
(D) four
(E) five

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Questions 18–23

From the 1st through the 7th of next month, seven nurses—Farnham, Griseldi, Heany, Juarez, Khan, Lightfoot, and Moreau—will each conduct one information session at a community center. Each nurse’s session will fall on a different day. The nurses’ schedule is governed by the following constraints:

At least two of the other nurses’ sessions must fall in between Heany’s session and Moreau’s session.
 Griseldi’s session must be on the day before Khan’s.
 Juarez’s session must be on a later day than Moreau’s.
 Farnham’s session must be on an earlier day than Khan’s but on a later day than Lightfoot’s.
 Lightfoot cannot conduct the session on the 2nd.

18. Which one of the following could be the order of the nurses’ sessions, from first to last?

- (A) Farnham, Griseldi, Khan, Moreau, Juarez, Lightfoot, Heany
- (B) Heany, Lightfoot, Farnham, Moreau, Juarez, Griseldi, Khan
- (C) Juarez, Heany, Lightfoot, Farnham, Moreau, Griseldi, Khan
- (D) Lightfoot, Moreau, Farnham, Juarez, Griseldi, Khan, Heany
- (E) Moreau, Lightfoot, Heany, Juarez, Farnham, Griseldi, Khan

19. Juarez’s session CANNOT be on which one of the following days?

- (A) the 2nd
- (B) the 3rd
- (C) the 5th
- (D) the 6th
- (E) the 7th

20. If Juarez’s session is on the 3rd, then which one of the following could be true?

- (A) Moreau’s session is on the 1st.
- (B) Khan’s session is on the 5th.
- (C) Heany’s session is on the 6th.
- (D) Griseldi’s session is on the 5th.
- (E) Farnham’s session is on the 2nd.

21. If Khan’s session is on an earlier day than Moreau’s, which one of the following could conduct the session on the 3rd?

- (A) Griseldi
- (B) Heany
- (C) Juarez
- (D) Lightfoot
- (E) Moreau

22. If Griseldi’s session is on the 5th, then which one of the following must be true?

- (A) Farnham’s session is on the 3rd.
- (B) Heany’s session is on the 7th.
- (C) Juarez’s session is on the 4th.
- (D) Lightfoot’s session is on the 1st.
- (E) Moreau’s session is on the 2nd.

23. Lightfoot’s session could be on which one of the following days?

- (A) the 3rd
- (B) the 4th
- (C) the 5th
- (D) the 6th
- (E) the 7th

S T O P

IF YOU FINISH BEFORE TIME IS CALLED, YOU MAY CHECK YOUR WORK ON THIS SECTION ONLY.
 DO NOT WORK ON ANY OTHER SECTION IN THE TEST.

SECTION V
Time—35 minutes
26 Questions

Directions: The questions in this section are based on the reasoning contained in brief statements or passages. For some questions, more than one of the choices could conceivably answer the question. However, you are to choose the best answer; that is, the response that most accurately and completely answers the question. You should not make assumptions that are by commonsense standards implausible, superfluous, or incompatible with the passage. After you have chosen the best answer, blacken the corresponding space on your answer sheet.

1. Among Trinidadian guppies, males with large spots are more attractive to females than are males with small spots, who consequently are presented with less frequent mating opportunities. Yet guppies with small spots are more likely to avoid detection by predators, so in waters where predators are abundant only guppies with small spots live to maturity.

The situation described above most closely conforms to which one of the following generalizations?

- (A) A trait that helps attract mates is sometimes more dangerous to one sex than to another.
 - (B) Those organisms that are most attractive to the opposite sex have the greatest number of offspring.
 - (C) Those organisms that survive the longest have the greatest number of offspring.
 - (D) Whether a trait is harmful to the organisms of a species can depend on which sex possesses it.
 - (E) A trait that is helpful to procreation can also hinder it in certain environments.
2. Programmer: We computer programmers at Mytheco are demanding raises to make our average salary comparable with that of the technical writers here who receive, on average, 20 percent more in salary and benefits than we do. This pay difference is unfair and intolerable.

Mytheco executive: But many of the technical writers have worked for Mytheco longer than have many of the programmers. Since salary and benefits at Mytheco are directly tied to seniority, the 20 percent pay difference you mention is perfectly acceptable.

Evaluating the adequacy of the Mytheco executive's response requires a clarification of which one of the following?

- (A) whether any of the technical writers at Mytheco once worked as programmers at the company
- (B) how the average seniority of programmers compares with the average seniority of technical writers
- (C) whether the sorts of benefits an employee of Mytheco receives are tied to the salary of that employee
- (D) whether the Mytheco executive was at one time a technical writer employed by Mytheco
- (E) how the Mytheco executive's salary compares with that of the programmers

3. Cable TV stations have advantages that enable them to attract many more advertisers than broadcast networks attract. For example, cable stations are able to target particular audiences with 24-hour news, sports, or movies, whereas broadcast networks must offer a variety of programming. Cable can also offer lower advertising rates than any broadcast network can, because it is subsidized by viewers through subscriber fees. Additionally, many cable stations have expanded worldwide with multinational programming.

The statements above, if true, provide support for each of the following EXCEPT:

- (A) Some broadcast networks can be viewed in several countries.
 - (B) Broadcast networks do not rely on subscriber fees from viewers.
 - (C) Low costs are often an important factor for advertisers in selecting a station or network on which to run a TV ad.
 - (D) Some advertisers prefer to have the opportunity to address a worldwide audience.
 - (E) The audiences that some advertisers prefer to target watch 24-hour news stations.
4. In polluted industrial English cities during the Industrial Revolution, two plant diseases—black spot, which infects roses, and tar spot, which infects sycamore trees—disappeared. It is likely that air pollution eradicated these diseases.

Which one of the following, if true, most strengthens the reasoning above?

- (A) Scientists theorize that some plants can develop a resistance to air pollution.
- (B) Certain measures help prevent infection by black spot and tar spot, but once infection occurs, it is very difficult to eliminate.
- (C) For many plant species, scientists have not determined the effects of air pollution.
- (D) Black spot and tar spot returned when the air in the cities became less polluted.
- (E) Black spot and tar spot were the only plant diseases that disappeared in any English cities during the Industrial Revolution.

5. Many scholars are puzzled about who created the seventeenth-century abridgment of Shakespeare's *Hamlet* contained in the First Quarto. Two facts about the work shed light on this question. First, the person who undertook the abridgment clearly did not possess a copy of *Hamlet*. Second, the abridgment contains a very accurate rendering of the speeches of one of the characters, but a slipshod handling of all the other parts.

Which one of the following statements is most supported by the information above?

- (A) The abridgment was prepared by Shakespeare.
 - (B) The abridgment was created to make *Hamlet* easier to produce on stage.
 - (C) The abridgment was produced by an actor who had played a role in *Hamlet*.
 - (D) The abridgment was prepared by a spectator of a performance of *Hamlet*.
 - (E) The abridgment was produced by an actor who was trying to improve the play.
6. Musicologist: Many critics complain of the disproportion between text and music in Handel's *da capo* arias. These texts are generally quite short and often repeated well beyond what is needed for literal understanding. Yet such criticism is refuted by noting that repetition serves a vital function: it frees the audience to focus on the music itself, which can speak to audiences whatever their language.

Which one of the following sentences best expresses the main point of the musicologist's reasoning?

- (A) Handel's *da capo* arias contain a disproportionate amount of music.
- (B) Handel's *da capo* arias are superior to most in their accessibility to diverse audiences.
- (C) At least one frequent criticism of Handel's *da capo* arias is undeserved.
- (D) At least some of Handel's *da capo* arias contain unnecessary repetitions.
- (E) Most criticism of Handel's *da capo* arias is unwarranted.

7. Baxe Interiors, one of the largest interior design companies in existence, currently has a near monopoly in the corporate market. Several small design companies have won prestigious awards for their corporate work, while Baxe has won none. Nonetheless, the corporate managers who solicit design proposals will only contract with companies they believe are unlikely to go bankrupt, and they believe that only very large companies are unlikely to go bankrupt.

The statements above, if true, most strongly support which one of the following?

- (A) There are other very large design companies besides Baxe, but they produce designs that are inferior to Baxe's.
- (B) Baxe does not have a near monopoly in the market of any category of interior design other than corporate interiors.
- (C) For the most part, designs that are produced by small companies are superior to the designs produced by Baxe.
- (D) At least some of the corporate managers who solicit design proposals are unaware that there are designs that are much better than those produced by Baxe.
- (E) The existence of interior designs that are superior to those produced by Baxe does not currently threaten its near monopoly in the corporate market.

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8. The giant Chicxulub crater in Mexico provides indisputable evidence that a huge asteroid, about six miles across, struck Earth around the time many of the last dinosaur species were becoming extinct. But this catastrophe was probably not responsible for most of these extinctions. Any major asteroid strike kills many organisms in or near the region of the impact, but there is little evidence that such a strike could have a worldwide effect. Indeed, some craters even larger than the Chicxulub crater were made during times in Earth's history when there were no known extinctions.

Which one of the following, if true, would most weaken the argument?

- (A) The vast majority of dinosaur species are known to have gone extinct well before the time of the asteroid impact that produced the Chicxulub crater.
- (B) The size of a crater caused by an asteroid striking Earth generally depends on both the size of that asteroid and the force of its impact.
- (C) Fossils have been discovered of a number of dinosaurs that clearly died as a result of the asteroid impact that produced the Chicxulub crater.
- (D) There is no evidence that any other asteroid of equal size struck Earth at the same time as the asteroid that produced the Chicxulub crater.
- (E) During the period immediately before the asteroid that produced the Chicxulub crater struck, most of the world's dinosaurs lived in or near the region of the asteroid's impending impact.

9. In a sample containing 1,000 peanuts from lot A and 1,000 peanuts from lot B, 50 of the peanuts from lot A were found to be infected with *Aspergillus*. Two hundred of the peanuts from lot B were found to be infected with *Aspergillus*. Therefore, infection with *Aspergillus* is more widespread in lot B than in lot A.

The reasoning in which one of the following is most similar to the reasoning in the argument above?

- (A) Every one of these varied machine parts is of uniformly high quality. Therefore, the machine that we assemble from them will be of equally high quality.
- (B) If a plant is carelessly treated, it is likely to develop blight. If a plant develops blight, it is likely to die. Therefore, if a plant is carelessly treated, it is likely to die.
- (C) In the past 1,000 experiments, whenever an experimental fungicide was applied to coffee plants infected with coffee rust, the infection disappeared. The coffee rust never disappeared before the fungicide was applied. Therefore, in these experiments, application of the fungicide caused the disappearance of coffee rust.
- (D) Three thousand registered voters—1,500 members of the Liberal party and 1,500 members of the Conservative party—were asked which mayoral candidate they favored. Four hundred of the Liberals and 300 of the Conservatives favored Pollack. Therefore, Pollack has more support among Liberals than among Conservatives.
- (E) All of my livestock are registered with the regional authority. None of the livestock registered with the regional authority are free-range livestock. Therefore, none of my livestock are free-range livestock.

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10. Economist: If the belief were to become widespread that losing one's job is not a sign of personal shortcomings but instead an effect of impersonal social forces (which is surely correct), there would be growth in the societal demand for more government control of the economy to protect individuals from these forces, just as the government now protects them from military invasion. Such extensive government control of the economy would lead to an economic disaster, however.

The economist's statements, if true, most strongly support which one of the following?

- (A) Increased knowledge of the causes of job loss could lead to economic disaster.
 - (B) An individual's belief in his or her own abilities is the only reliable protection against impersonal social forces.
 - (C) Governments should never interfere with economic forces.
 - (D) Societal demand for government control of the economy is growing.
 - (E) In general, people should feel no more responsible for economic disasters than for military invasions.
11. A development company has proposed building an airport near the city of Dalton. If the majority of Dalton's residents favor the proposal, the airport will be built. However, it is unlikely that a majority of Dalton's residents would favor the proposal, for most of them believe that the airport would create noise problems. Thus, it is unlikely that the airport will be built.
- The reasoning in the argument is flawed in that the argument
- (A) treats a sufficient condition for the airport's being built as a necessary condition
 - (B) concludes that something must be true, because most people believe it to be true
 - (C) concludes, on the basis that a certain event is unlikely to occur, that the event will not occur
 - (D) fails to consider whether people living near Dalton would favor building the airport
 - (E) overlooks the possibility that a new airport could benefit the local economy

12. After the rush-hour speed limit on the British M25 motorway was lowered from 70 miles per hour (115 kilometers per hour) to 50 miles per hour (80 kilometers per hour), rush-hour travel times decreased by approximately 15 percent.

Which one of the following, if true, most helps to explain the decrease in travel times described above?

- (A) After the decrease in the rush-hour speed limit, the average speed on the M25 was significantly lower during rush hours than at other times of the day.
 - (B) Travel times during periods other than rush hours were essentially unchanged after the rush-hour speed limit was lowered.
 - (C) Before the rush-hour speed limit was lowered, rush-hour accidents that caused lengthy delays were common, and most of these accidents were caused by high-speed driving.
 - (D) Enforcement of speed limits on the M25 was quite rigorous both before and after the rush-hour speed limit was lowered.
 - (E) The number of people who drive on the M25 during rush hours did not increase after the rush-hour speed limit was lowered.
13. An art critic, by ridiculing an artwork, can undermine the pleasure one takes in it; conversely, by lavishing praise upon an artwork, an art critic can render the experience of viewing the artwork more pleasurable. So an artwork's artistic merit can depend not only on the person who creates it but also on those who critically evaluate it.
- The conclusion can be properly drawn if which one of the following is assumed?
- (A) The merit of an artistic work is determined by the amount of pleasure it elicits.
 - (B) Most people lack the confidence necessary for making their own evaluations of art.
 - (C) Art critics understand what gives an artwork artistic merit better than artists do.
 - (D) Most people seek out critical reviews of particular artworks before viewing those works.
 - (E) The pleasure people take in something is typically influenced by what they think others feel about it.

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14. The number of automobile thefts has declined steadily during the past five years, and it is more likely now than it was five years ago that someone who steals a car will be convicted of the crime.

Which one of the following, if true, most helps to explain the facts cited above?

- (A) Although there are fewer car thieves now than there were five years ago, the proportion of thieves who tend to abandon cars before their owners notice that they have been stolen has also decreased.
- (B) Car alarms are more common than they were five years ago, but their propensity to be triggered in the absence of any criminal activity has resulted in people generally ignoring them when they are triggered.
- (C) An upsurge in home burglaries over the last five years has required police departments to divert limited resources to investigation of these cases.
- (D) Because of the increasingly lucrative market for stolen automobile parts, many stolen cars are quickly disassembled and the parts are sold to various buyers across the country.
- (E) There are more adolescent car thieves now than there were five years ago, and the sentences given to young criminals tend to be far more lenient than those given to adult criminals.

15. Legislator: My staff conducted a poll in which my constituents were asked whether they favor high taxes. More than 97 percent answered “no.” Clearly, then, my constituents would support the bill I recently introduced, which reduces the corporate income tax.

The reasoning in the legislator’s argument is most vulnerable to criticism on the grounds that the argument

- (A) fails to establish that the opinions of the legislator’s constituents are representative of the opinions of the country’s population as a whole
- (B) fails to consider whether the legislator’s constituents consider the current corporate income tax a high tax
- (C) confuses an absence of evidence that the legislator’s constituents oppose a bill with the existence of evidence that the legislator’s constituents support that bill
- (D) draws a conclusion that merely restates a claim presented in support of that conclusion
- (E) treats a result that proves that the public supports a bill as a result that is merely consistent with public support for that bill

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16. Many nursing homes have prohibitions against having pets, and these should be lifted. The presence of an animal companion can yield health benefits by reducing a person’s stress. A pet can also make one’s time at a home more rewarding, which will be important to more people as the average life span of our population increases.

Which one of the following most accurately expresses the conclusion drawn in the argument above?

- (A) As the average life span increases, it will be important to more people that life in nursing homes be rewarding.
- (B) Residents of nursing homes should enjoy the same rewarding aspects of life as anyone else.
- (C) The policy that many nursing homes have should be changed so that residents are allowed to have pets.
- (D) Having a pet can reduce one’s stress and thereby make one a healthier person.
- (E) The benefits older people derive from having pets need to be recognized, especially as the average life span increases.

17. Near many cities, contamination of lakes and rivers from pollutants in rainwater runoff exceeds that from industrial discharge. As the runoff washes over buildings and pavements, it picks up oil and other pollutants. Thus, water itself is among the biggest water polluters.

The statement that contamination of lakes and rivers from pollutants in rainwater runoff exceeds that from industrial discharge plays which one of the following roles in the argument?

- (A) It is a conclusion for which the claim that water itself should be considered a polluter is offered as support.
- (B) It is cited as evidence that pollution from rainwater runoff is a more serious problem than pollution from industrial discharge.
- (C) It is a generalization based on the observation that rainwater runoff picks up oil and other pollutants as it washes over buildings and pavements.
- (D) It is a premise offered in support of the conclusion that water itself is among the biggest water polluters.
- (E) It is stated to provide an example of a typical kind of city pollution.

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18. Wong: Although all countries are better off as democracies, a transitional autocratic stage is sometimes required before a country can become democratic.

Tate: The freedom and autonomy that democracy provides are of genuine value, but the simple material needs of people are more important. Some countries can better meet these needs as autocracies than as democracies.

Wong's and Tate's statements provide the most support for the claim that they disagree over the truth of which one of the following?

- (A) There are some countries that are better off as autocracies than as democracies.
 - (B) Nothing is more important to a country than the freedom and autonomy of the individuals who live in that country.
 - (C) In some cases, a country cannot become a democracy.
 - (D) The freedom and autonomy that democracy provides are of genuine value.
 - (E) All democracies succeed in meeting the simple material needs of people.
19. Principle: When none of the fully qualified candidates for a new position at Arvue Corporation currently works for that company, it should hire the candidate who would be most productive in that position.
- Application: Arvue should not hire Krall for the new position, because Delacruz is a candidate and is fully qualified.
- Which one of the following, if true, justifies the above application of the principle?
- (A) All of the candidates are fully qualified for the new position, but none already works for Arvue.
 - (B) Of all the candidates who do not already work for Arvue, Delacruz would be the most productive in the new position.
 - (C) Krall works for Arvue, but Delacruz is the candidate who would be most productive in the new position.
 - (D) Several candidates currently work for Arvue, but Krall and Delacruz do not.
 - (E) None of the candidates already works for Arvue, and Delacruz is the candidate who would be most productive in the new position.

20. Many important types of medicine have been developed from substances discovered in plants that grow only in tropical rain forests. There are thousands of plant species in these rain forests that have not yet been studied by scientists, and it is very likely that many such plants also contain substances of medicinal value. Thus, if the tropical rain forests are not preserved, important types of medicine will never be developed.

Which one of the following is an assumption required by the argument?

- (A) There are substances of medicinal value contained in tropical rain forest plants not yet studied by scientists that differ from those substances already discovered in tropical rain forest plants.
- (B) Most of the tropical rain forest plants that contain substances of medicinal value can also be found growing in other types of environment.
- (C) The majority of plant species that are unique to tropical rain forests and that have been studied by scientists have been discovered to contain substances of medicinal value.
- (D) Any substance of medicinal value contained in plant species indigenous to tropical rain forests will eventually be discovered if those species are studied by scientists.
- (E) The tropical rain forests should be preserved to make it possible for important medicines to be developed from plant species that have not yet been studied by scientists.

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21. In modern deep-diving marine mammals, such as whales, the outer shell of the bones is porous. This has the effect of making the bones light enough so that it is easy for the animals to swim back to the surface after a deep dive. The outer shell of the bones was also porous in the ichthyosaur, an extinct prehistoric marine reptile. We can conclude from this that ichthyosaurs were deep divers.

Which one of the following, if true, most weakens the argument?

- (A) Some deep-diving marine species must surface after dives but do not have bones with porous outer shells.
- (B) In most modern marine reptile species, the outer shell of the bones is not porous.
- (C) In most modern and prehistoric marine reptile species that are not deep divers, the outer shell of the bones is porous.
- (D) In addition to the porous outer shells of their bones, whales have at least some characteristics suited to deep diving for which there is no clear evidence whether these were shared by ichthyosaurs.
- (E) There is evidence that the bones of ichthyosaurs would have been light enough to allow surfacing even if the outer shells were not porous.

22. Librarian: Some argue that the preservation grant we received should be used to restore our original copy of our town's charter, since if the charter is not restored, it will soon deteriorate beyond repair. But this document, although sentimentally important, has no scholarly value. Copies are readily available. Since we are a research library and not a museum, the money would be better spent preserving documents that have significant scholarly value.

The claim that the town's charter, if not restored, will soon deteriorate beyond repair plays which one of the following roles in the librarian's argument?

- (A) It is a claim that the librarian's argument attempts to show to be false.
- (B) It is the conclusion of the argument that the librarian's argument rejects.
- (C) It is a premise in an argument whose conclusion is rejected by the librarian's argument.
- (D) It is a premise used to support the librarian's main conclusion.
- (E) It is a claim whose truth is required by the librarian's argument.

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23. Columnist: Although much has been learned, we are still largely ignorant of the intricate interrelationships among species of living organisms. We should, therefore, try to preserve the maximum number of species if we have an interest in preserving any, since allowing species toward which we are indifferent to perish might undermine the viability of other species.

Which one of the following principles, if valid, most helps to justify the columnist's argument?

- (A) It is strongly in our interest to preserve certain plant and animal species.
- (B) We should not take any action until all relevant scientific facts have been established and taken into account.
- (C) We should not allow the number of species to diminish any further than is necessary for the flourishing of present and future human populations.
- (D) We should not allow a change to occur unless we are assured that that change will not jeopardize anything that is important to us.
- (E) We should always undertake the course of action that is likely to have the best consequences in the immediate future.

24. One is likely to feel comfortable approaching a stranger if the stranger is of one's approximate age. Therefore, long-term friends are probably of the same approximate age as each other since most long-term friendships begin because someone felt comfortable approaching a stranger.

The reasoning in the argument is flawed in that it

- (A) presumes, without warrant, that one is likely to feel uncomfortable approaching a person only if that person is a stranger
- (B) infers that a characteristic is present in a situation from the fact that that characteristic is present in most similar situations
- (C) overlooks the possibility that one is less likely to feel comfortable approaching someone who is one's approximate age if that person is a stranger than if that person is not a stranger
- (D) presumes, without warrant, that one never approaches a stranger unless one feels comfortable doing so
- (E) fails to address whether one is likely to feel comfortable approaching a stranger who is not one's approximate age

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25. There can be no individual freedom without the rule of law, for there is no individual freedom without social integrity, and pursuing the good life is not possible without social integrity.

The conclusion drawn above follows logically if which one of the following is assumed?

- (A) There can be no rule of law without social integrity.
- (B) There can be no social integrity without the rule of law.
- (C) One cannot pursue the good life without the rule of law.
- (D) Social integrity is possible only if individual freedom prevails.
- (E) There can be no rule of law without individual freedom.

26. Economist: Countries with an uneducated population are destined to be weak economically and politically, whereas those with an educated population have governments that display a serious financial commitment to public education. So any nation with a government that has made such a commitment will avoid economic and political weakness.

The pattern of flawed reasoning in which one of the following arguments is most similar to that in the economist's argument?

- (A) Animal species with a very narrow diet will have more difficulty surviving if the climate suddenly changes, but a species with a broader diet will not; for changes in the climate can remove the traditional food supply.
- (B) People incapable of empathy are not good candidates for public office, but those who do have the capacity for empathy are able to manipulate others easily; hence, people who can manipulate others are good candidates for public office.
- (C) People who cannot give orders are those who do not understand the personalities of the people to whom they give orders. Thus, those who can give orders are those who understand the personalities of the people to whom they give orders.
- (D) Poets who create poetry of high quality are those who have studied traditional poetry, because poets who have not studied traditional poetry are the poets most likely to create something shockingly inventive, and poetry that is shockingly inventive is rarely fine poetry.
- (E) People who dislike exercise are unlikely to lose weight without sharply curtailing their food intake; but since those who dislike activity generally tend to avoid it, people who like to eat but dislike exercise will probably fail to lose weight.

S T O P

IF YOU FINISH BEFORE TIME IS CALLED, YOU MAY CHECK YOUR WORK ON THIS SECTION ONLY.
DO NOT WORK ON ANY OTHER SECTION IN THE TEST.

POWERSCORE PRACTICE TEST 1**Experimental Section Answer Key
(From the December 1999 LSAT)**

The remaining four sections must be scored online.

SECTION III - Logical Reasoning**Credited
Response**

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

Note: Online scoring will provide a more complete picture of your performance.

COMPUTING YOUR SCORE

Directions:

1. Use the Answer Key on the next page to check your answers.
2. Use the Scoring Worksheet below to compute your raw score.
3. Use the Score Conversion Chart to convert your raw score into the 120-180 scale.

Scoring Worksheet

1. Enter the number of questions you answered correctly in each section.

**Number
Correct**

SECTION I.....

SECTION II.....

SECTION III.....

SECTION IV

2. Enter the sum here: _____

This is your Raw Score.

Conversion Chart: For Converting Raw Score to the 120-180 LSAT Scaled Score LSAT Form 0LSN86

Reported Score	Raw Score	Lowest	Highest
180	99		101
179	98		98
178	97		97
177	96		96
176	—*		—*
175	95		95
174	94		94
173	93		93
172	92		92
171	91		91
170	89		90
169	88		88
168	87		87
167	85		86
166	84		84
165	82		83
164	81		81
163	79		80
162	78		78
161	76		77
160	74		75
159	73		73
158	71		72
157	69		70
156	67		68
155	66		66
154	64		65
153	62		63
152	60		61
151	58		59
150	57		57
149	55		56
148	53		54
147	52		52
146	50		51
145	48		49
144	47		47
143	45		46
142	43		44
141	42		42
140	40		41
139	39		39
138	37		38
137	36		36
136	34		35
135	33		33
134	31		32
133	30		30
132	29		29
131	27		28
130	26		26
129	25		25
128	24		24
127	22		23
126	21		21
125	20		20
124	19		19
123	18		18
122	16		17
121	—*		—*
120	0		15

*There is no raw score that will produce this scaled score for this form.

DATE OF BIRTH

