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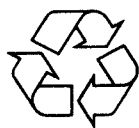
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Printed on Recycled Paper

General Directions for the LSAT Answer Sheet

The actual testing time for this portion of the test will be 2 hours 55 minutes. There are five sections, each with a time limit of 35 minutes. The supervisor will tell you when to begin and end each section. If you finish a section before time is called, you may check your work on that section only; do not turn to any other section of the test book and do not work on any other section either in the test book or on the answer sheet.

There are several different types of questions on the test, and each question type has its own directions. Be sure you understand the directions for each question type before attempting to answer any questions in that section.

Not everyone will finish all the questions in the time allowed. Do not hurry, but work steadily and as quickly as you can without sacrificing accuracy. You are advised to use your time effectively. If a question seems too difficult, go on to the next one and return to the difficult question after completing the section. **MARK THE BEST ANSWER YOU CAN FOR EVERY QUESTION. NO DEDUCTIONS WILL BE MADE FOR WRONG ANSWERS. YOUR SCORE WILL BE BASED ONLY ON THE NUMBER OF QUESTIONS YOU ANSWER CORRECTLY.**

ALL YOUR ANSWERS MUST BE MARKED ON THE ANSWER SHEET. Answer spaces for each question are lettered to correspond with the letters of the potential answers to each question in the test book. After you have decided which of the answers is correct, blacken the corresponding space on the answer sheet. **BE SURE THAT EACH MARK IS BLACK AND COMPLETELY FILLS THE ANSWER SPACE.** Give only one answer to each question. If you change an answer, be sure that all previous marks are erased completely. Since the answer sheet is machine scored, incomplete erasures may be interpreted as intended answers. **ANSWERS RECORDED IN THE TEST BOOK WILL NOT BE SCORED.**

There may be more questions noted on this answer sheet than there are questions in a section. Do not be concerned but be certain that the section and number of the question you are answering matches the answer sheet section and question number. Additional answer spaces in any answer sheet section should be left blank. Begin your next section in the number one answer space for that section.

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Complete this section only if you are absolutely certain you want to cancel your score. **A CANCELLATION REQUEST CANNOT BE RESCINDED. IF YOU ARE AT ALL UNCERTAIN, YOU SHOULD NOT COMPLETE THIS SECTION; INSTEAD, YOU SHOULD USE THE TIME ALLOWED AFTER THE TEST (UP TO 5 DAYS) TO FULLY CONSIDER YOUR DECISION.**

To cancel your score from this administration, you must:

A. fill in the ovals here..... ☐ ☐

B. read the following statement. Then sign your name and enter the date.

I certify that I wish to cancel my test score from this administration. I understand that my request is irreversible and that my score will not be sent to me or to the law schools to which I apply.

Sign your name in full

Date

HOW DID YOU PREPARE FOR THE LSAT?

(Select all that apply.)

Responses to this item are voluntary and will be used for statistical research purposes only.

- ☐ By studying the sample questions in the *LSAT/LSDAS Registration and Information Book*.
- ☐ By taking the free sample LSAT.
- ☐ By working through *The Official LSAT PrepTest(s)*, *PrepBook*, *Workbooks*, or *PrepKit*.
- ☐ By using a book on how to prepare for the LSAT **not** published by Law Services.
- ☐ By attending a commercial test preparation or coaching course.
- ☐ By attending a test preparation or coaching course offered through an undergraduate institution.
- ☐ Self study.
- ☐ Other preparation.
- ☐ No preparation.

CERTIFYING STATEMENT

Please write (DO NOT PRINT) the following statement. Sign and date.

I certify that I am the examinee whose name appears on this answer sheet and that I am here to take the LSAT for the sole purpose of being considered for admission to law school. I further certify that I will neither assist nor receive assistance from any other candidate, and I agree not to copy or retain examination questions or to transmit them in any form to any other person.

SIGNATURE: _____ TODAY'S DATE: _____
MONTH DAY YEAR

INSTRUCTIONS FOR COMPLETING THE BIOGRAPHICAL AREA ARE ON THE BACK COVER OF YOUR TEST BOOKLET.
USE ONLY A NO. 2 OR HB PENCIL TO COMPLETE THIS ANSWER SHEET. DO NOT USE INK.

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2 DATE OF BIRTH		
MONTH	DAY	YEAR
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☐ Feb		
☐ Mar	0 0	0 0
☐ Apr	1 1	1 1
☐ May	2 2	2 2
☐ June	3 3	3 3
☐ July	4 4	4 4
☐ Aug	5 5	5 5
☐ Sept	6 6	6 6
☐ Oct	7 7	7 7
☐ Nov	8 8	8 8
☐ Dec	9 9	9 9

3 SOCIAL SECURITY NO.								
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4 ETHNIC DESCRIPTION	
☐ American Indian/Alaskan Native	
☐ Asian/Pacific Islander	
☐ Black/African Amer.	
☐ Canadian Aboriginal	
☐ Caucasian/White	
☐ Chicano/Mex. Amer.	
☐ Hispanic	
☐ Puerto Rican	
☐ Other	

5 GENDER
☐ Male
☐ Female

6 DOMINANT LANGUAGE
☐ English
☐ Other

7 ENGLISH FLUENCY
☐ Yes
☐ No

8 CENTER NUMBER			
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9 TEST FORM CODE			
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10 TEST BOOK SERIAL NO.

11 TEST FORM

12 TEST DATE
MONTH DAY YEAR

13 PLEASE PRINT ALL INFORMATION
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MAILING ADDRESS
SOCIAL SECURITY/ SOCIAL INSURANCE NO.

LAW SCHOOL ADMISSION TEST

MARK ONE AND ONLY ONE ANSWER TO EACH QUESTION. BE SURE TO FILL IN COMPLETELY THE SPACE FOR YOUR INTENDED ANSWER CHOICE. IF YOU ERASE, DO SO COMPLETELY. MAKE NO STRAY MARKS.

SECTION 1	SECTION 2	SECTION 3	SECTION 4	SECTION 5
1 A B C D E	1 A B C D E	1 A B C D E	1 A B C D E	1 A B C D E
2 A B C D E	2 A B C D E	2 A B C D E	2 A B C D E	2 A B C D E
3 A B C D E	3 A B C D E	3 A B C D E	3 A B C D E	3 A B C D E
4 A B C D E	4 A B C D E	4 A B C D E	4 A B C D E	4 A B C D E
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7 A B C D E	7 A B C D E	7 A B C D E	7 A B C D E	7 A B C D E
8 A B C D E	8 A B C D E	8 A B C D E	8 A B C D E	8 A B C D E
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10 A B C D E	10 A B C D E	10 A B C D E	10 A B C D E	10 A B C D E
11 A B C D E	11 A B C D E	11 A B C D E	11 A B C D E	11 A B C D E
12 A B C D E	12 A B C D E	12 A B C D E	12 A B C D E	12 A B C D E
13 A B C D E	13 A B C D E	13 A B C D E	13 A B C D E	13 A B C D E
14 A B C D E	14 A B C D E	14 A B C D E	14 A B C D E	14 A B C D E
15 A B C D E	15 A B C D E	15 A B C D E	15 A B C D E	15 A B C D E
16 A B C D E	16 A B C D E	16 A B C D E	16 A B C D E	16 A B C D E
17 A B C D E	17 A B C D E	17 A B C D E	17 A B C D E	17 A B C D E
18 A B C D E	18 A B C D E	18 A B C D E	18 A B C D E	18 A B C D E
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- Logical Reasoning SECTION I
 - Analytical Reasoning SECTION II
 - Reading Comprehension SECTION III
 - Logical Reasoning SECTION IV

SECTION I

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. Educational television is a contradiction in terms. While a classroom encourages social interaction, television encourages solitude. School is centered on the development of language, but television depends upon constantly changing visual images. And in a classroom, fun is merely a means to an end, but on television it is the end in itself.

Upon which one of the following assumptions does the author rely in the passage?

- (A) The classroom should not be a place where anyone has fun.
 - (B) Only experiences that closely resemble what takes place in the school environment can be educational.
 - (C) Television programs reinforce some of the values of the school environment.
 - (D) Educational television programs are qualitatively better than most other television programs.
 - (E) The potential of television as a powerful learning tool has not yet been realized.
2. Switching to “low-yield” cigarettes, those that yield less nicotine, tar, and carbon monoxide than regular cigarettes when tested on a standard machine, does not, in general, reduce the incidence of heart attack. This result is surprising, since nicotine and carbon monoxide have been implicated as contributing to heart disease.

Which one of the following, if true, most helps to resolve the apparent discrepancy?

- (A) Smoking low-yield cigarettes has become fashionable, as relatively healthier styles of life have become more popular than those that have been identified as risky.
- (B) For those who are themselves smokers, inhaling the smoke of others is not generally a significant factor contributing to an increased risk of heart disease.
- (C) Nicotine does not contribute as much to heart disease as does carbon monoxide.
- (D) Carbon monoxide and cigarette tar are not addictive substances.
- (E) People who switch from high-yield to low-yield cigarettes often compensate by increasing the number and depth of puffs in order to maintain their accustomed nicotine levels.

Questions 3–4

Sally: I cannot study at a university where there is an alcohol problem, so unless something is done about the alcohol problem at this university, I'll have to transfer to a university where there are no fraternities.

Yolanda: I don't agree that fraternities are responsible for the alcohol problem at this university. Alcohol problems exist at all universities, including those where there are no fraternities. We all should become more aware of alcohol abuse. It's not simply a fraternity problem; it's a cultural problem.

3. Which one of the following is an assumption on which Sally's argument depends?
- (A) Most universities have fraternities.
 - (B) Nothing will be done about the alcohol problem at Sally's university.
 - (C) Alcohol problems are becoming more widespread at universities.
 - (D) Some fraternity members who drink alcoholic beverages are too young to do so legally.
 - (E) There could be universities that have no alcohol problems.
4. In the conversation, Yolanda does which one of the following?
- (A) She argues that if people become more aware of alcohol abuse, fewer people will themselves abuse alcohol.
 - (B) She makes an overly broad generalization from one university to all universities.
 - (C) She concludes that because alcohol problems are cultural problems, they cannot be fraternity problems.
 - (D) She tries to undermine what she supposes to be Sally's position by pointing out that alcohol problems occur even at universities where there are no fraternities.
 - (E) She suggests that even if alcohol problems existed only at universities with fraternities, she would still conclude that alcoholism is a cultural rather than a fraternity problem.

GO ON TO THE NEXT PAGE.

5. Some people have questioned why the Homeowners Association is supporting Cooper's candidacy for mayor. But if the Association wants a mayor who will attract more businesses to the town, Cooper is the only candidate it could support. So, since the Association is supporting Cooper, it must have a goal of attracting more businesses to the town.

The reasoning in the argument is in error because

- (A) the reasons the Homeowners Association should want to attract more businesses to the town are not given
 - (B) the Homeowners Association could be supporting Cooper's candidacy for reasons unrelated to attracting businesses to the town
 - (C) other groups besides the Homeowners Association could be supporting Cooper's candidacy
 - (D) the Homeowners Association might discover that attracting more businesses to the town would not be in the best interest of its members
 - (E) Cooper might not have all of the skills that are needed by a mayor who wants to attract businesses to a town
6. Advertisement: Most power hedge trimmers on the market do an adequate job of trimming hedges, but many power hedge trimmers are dangerous to operate and can cause serious injury when used by untrained operators. Bolter Industries' hedge trimmer has been tested by National Laboratories, the most trusted name in safety testing. So you know, if you buy a Bolter's, you are buying a power hedge trimmer whose safety is assured.

The answer to which one of the following questions would be most useful in evaluating the truth of the conclusion drawn in the advertisement?

- (A) Has National Laboratories performed safety tests on other machines made by Bolter Industries?
- (B) How important to the average buyer of a power hedge trimmer is safety of operation?
- (C) What were the results of National Laboratories' tests of Bolter Industries' hedge trimmer?
- (D) Are there safer ways of trimming a hedge than using a power hedge trimmer?
- (E) Does any other power hedge trimmer on the market do a better job of trimming hedges than does Bolter Industries' hedge trimmer?

7. Slash-and-burn agriculture involves burning several acres of forest, leaving vegetable ash that provides ample fertilizer for three or four years of bountiful crops. On the cleared land nutrients leach out of the soil, however, and the land becomes too poor to support agriculture. New land is then cleared by burning and the process starts again. Since most farming in the tropics uses this method, forests in this region will eventually be permanently eradicated.

The argument depends on the assumption that

- (A) forests in the tropics do not regenerate well enough to restore themselves once they have been cleared by the slash-and-burn method
 - (B) some other methods of agriculture are not as destructive to the environment in tropical regions as the slash-and-burn method is
 - (C) forests in the tropics are naturally deficient in nutrients that are needed to support the growth of plants that are not native to those regions
 - (D) slash-and-burn agriculture is particularly suitable for farming in tropical areas
 - (E) slash-and-burn agriculture produces a more bountiful crop than do other agriculture methods for the first year
8. Of 2,500 people who survived a first heart attack, those who did not smoke had their first heart attack at a median age of 62. However, of those 2,500, people who smoked two packs of cigarettes a day had their first heart attack at a median age of 51. On the basis of this information, it can be concluded that nonsmokers tend to have a first heart attack eleven years later than do people who smoke two packs of cigarettes a day.

The conclusion is incorrectly drawn from the information given because this information does not include

- (A) the relative severity of heart attacks suffered by smokers and nonsmokers
- (B) the nature of the different medical treatments that smokers and nonsmokers received after they had survived their first heart attack
- (C) how many of the 2,500 people studied suffered a second heart attack
- (D) the earliest age at which a person who smoked two packs a day had his or her first heart attack
- (E) data on people who did not survive a first heart attack

GO ON TO THE NEXT PAGE.

9. Paleontologists have discovered fossils of centipedes that are 414 million years old. These fossils are at least 20 million years older than the earliest land-dwelling animals previously identified. The paleontologists are confident that these centipedes lived on land, even though the fossilized centipedes were discovered in rock that also contained fossilized remains of animals known to be water-dwelling.

The paleontologists' view would be LEAST supported by the truth of which one of the following?

- (A) The legs of the fossilized centipedes were particularly suited to being a means of locomotion on land.
 - (B) All of the centipedes that had previously been discovered were land dwellers.
 - (C) The rock in which the fossilized centipedes were found was formed from mud flats that were occasionally covered by river water.
 - (D) Fossils of the earliest land-dwelling animals that had previously been identified were found in rock that did not contain fossilized remains of water-dwelling animals.
 - (E) Fossils of spiders with respiratory systems adapted only to breathing air were found in the same rock as the centipede fossils.
10. Broadcaster: Our radio station has a responsibility to serve the public interest. Hence, when our critics contend that our recent exposé of events in the private lives of local celebrities was excessively intrusive, we can only reply that the overwhelming public interest in these matters makes it our responsibility to publicize them.

Which one of the following is a flaw in the broadcaster's defense of the radio station's practice?

- (A) assuming without argument that there is a right to privacy
- (B) ignoring grounds for criticism of the exposé aside from intrusion into people's private lives
- (C) intentionally failing to specify what is meant by "excessively intrusive"
- (D) confusing legal responsibility with moral obligation
- (E) improperly exploiting an ambiguity in the phrase "public interest"

Questions 11–12

The fire that destroyed the Municipal Building started before dawn this morning, and the last fire fighters did not leave until late this afternoon. No one could have been anywhere in the vicinity of a fire like that one and fail to notice it. Thomas must have seen it, whatever he now says to the contrary. He admits that, as usual, he went from his apartment to the library this morning, and there is no way for him to get from his apartment to the library without going past the Municipal Building.

11. The main conclusion of the argument is that
- (A) Thomas was in the vicinity of the fire this morning
 - (B) Thomas claimed not to have seen the fire
 - (C) Thomas saw the fire this morning
 - (D) Thomas went directly from his apartment to the library this morning
 - (E) Thomas went by the Municipal Building this morning
12. The argument employs which one of the following reasoning techniques?
- (A) presenting several different pieces of evidence, each of which by itself would allow the conclusion to be properly drawn
 - (B) establishing that one thing occurred by showing that another thing occurred and that this second thing was enough to ensure the occurrence of the first thing
 - (C) justifying a claim that a view held by someone else is false by explaining why that view, despite its falsity, is a tempting one for that person to hold under the circumstances
 - (D) relying on evidence that a certain kind of event has regularly occurred in the past as a basis for concluding that an event of that kind occurred in the present case
 - (E) drawing a general conclusion about what is possible in a certain kind of situation on the basis of firsthand experience with one such situation

GO ON TO THE NEXT PAGE.

13. Editorial: In rejecting the plan proposed by parliament to reform the electoral process, the president clearly acted in the best interests of the nation. Anyone who thinks otherwise should remember that the president made this decision knowing it would be met with fierce opposition at home and widespread disapproval abroad. All citizens who place the nation's well-being above narrow partisan interests will applaud this courageous action.

The reasoning in the editorial is in error because

- (A) it confuses a quality that is merely desirable in a political leader with a quality that is essential to effective political decision-making
 - (B) it fails to distinguish between evidence concerning the courage required to make a certain decision and evidence concerning the wisdom of making that decision
 - (C) it ignores the likelihood that many citizens have no narrow partisan interest in the proposed election reform plan
 - (D) it overlooks the possibility that there was strong opposition to the parliament's plan among members of the president's own party
 - (E) it depends on the unwarranted assumption that any plan proposed by a parliament will necessarily serve only narrow partisan interests
14. Once consumers recognize that a period of inflation has begun, there is generally an increase in consumer spending. This increase can be readily explained by consumers' desire not to postpone purchases that will surely increase in price. But during protracted periods of inflation, consumers eventually begin to put off making even routine purchases, despite the fact that consumers continue to expect prices to rise and despite the fact that salaries also rise during inflationary periods.

Which one of the following, if true, most helps to explain the apparent inconsistency in consumer behavior described above?

- (A) During times of inflation consumers save more money than they do in noninflationary periods.
- (B) There is usually a lag between the leading economic indicators' first signaling the onset of an inflationary period and consumers' recognition of its onset.
- (C) No generalization that describes human behavior will be true of every type of human behavior.
- (D) If significant numbers of consumers are unable to make purchases, prices will eventually fall but salaries will not be directly affected.
- (E) Consumers' purchasing power decreases during periods of protracted inflation since salaries do not keep pace with prices.

Questions 15–16

A favored theory to explain the extinction of dinosaurs, together with many other species, has been the globally catastrophic collision of a large asteroid with the Earth. Supporting evidence is an extraterrestrial chemical element in a layer of dust found worldwide at a geological level laid down contemporaneously with the supposed event. A new competing theory contends that any asteroid impact was irrelevant, because it was massive volcanic activity that caused the extinctions by putting enough dust into the atmosphere to cool the planet. The Deccan region of India contains extensive volcanic flows that occurred within the same time period as the supposed asteroid impact and the extinctions.

15. The new theory assumes that
- (A) the massive volcanic activity was not caused by the impact of an asteroid
 - (B) no individual dinosaurs survived the impact of the asteroid, if it occurred
 - (C) the extinctions took place over a longer time period than they would have if caused by the impact of an asteroid
 - (D) other volcanic eruptions were not occurring at the same time as those in the Deccan region
 - (E) it is not possible to determine which would have occurred first, the volcanic flows in the Deccan region or the supposed impact of an asteroid
16. Which one of the following, if true, most strongly indicates that the asteroid-impact theory is at least incomplete, if not false?
- (A) Large concentrations of dinosaur nests with fossil eggs found in Alberta indicate that at least some species of dinosaurs congregated in large groups during some part of their lives.
 - (B) Dinosaur remains indicate that some species of dinosaur could have migrated in herds over wide ranges, so that they could have traveled to escape the local effects of certain catastrophes.
 - (C) Legends from many cultures, such as the Greek legend that Cadmus raised an army by sowing dragons' teeth in the ground, show that various ancient peoples worldwide were familiar with the fossils of dinosaurs.
 - (D) In the Gobi desert in China, where now only small animals can eke out an existence, fossil dinosaur skeletons 27 feet long were found in circumstances indicating that the climate there was as dry when the dinosaurs lived as it is now.
 - (E) The fossil record in Montana from below the layer of extraterrestrial dust shows a diminution over time in dinosaur species from 35 to 13, and dinosaur teeth found above the dust layer show a diminution in species from 13 to 5.

17. A contract, whether expressed or unexpressed, exists when two parties engage with each other for the reciprocal transfer of benefits. Thus, in accepting support from public funds, an artist creates at least an unexpressed contract between himself or herself and the public, and the public can rightly expect to benefit from the artist's work.

Which one of the following most accurately describes an error in reasoning in the passage?

- (A) attempting to justify a rule of conduct on the grounds that it confers benefits on all of the parties involved
- (B) concluding that a definition is fully applicable to a situation when it is known only that the situation conforms partially to that definition
- (C) speaking only in abstract terms about matters that involve contingencies and that must be judged on a case-by-case basis
- (D) confusing the type of mental or emotional activity in which an individual can engage with the mental or emotional states that can characterize groups of individuals
- (E) treating an issue that requires resolution through political processes as if it were merely a matter of opinion

18. People cannot be morally responsible for things over which they have no control. Therefore, they should not be held morally responsible for any inevitable consequences of such things, either. Determining whether adults have any control over the treatment they are receiving can be difficult. Hence in some cases it can be difficult to know whether adults bear any moral responsibility for the way they are treated. Everyone, however, sometimes acts in ways that are an inevitable consequence of treatment received as an infant, and infants clearly cannot control, and so are not morally responsible for, the treatment they receive.

Anyone making the claims above would be logically committed to which one of the following further claims?

- (A) An infant should never be held morally responsible for an action that infant has performed.
- (B) There are certain commonly performed actions for which no one performing those actions should ever be held morally responsible.
- (C) Adults who claim that they have no control over the treatment they are receiving should often be held at least partially responsible for being so treated.
- (D) If a given action is within a certain person's control that person should be held morally responsible for the consequences of that action.
- (E) No adult should be held morally responsible for every action he or she performs.

19. Fares on the city-run public buses in Greenville are subsidized by city tax revenues, but among the beneficiaries of the low fares are many people who commute from outside the city to jobs in Greenville. Some city councillors argue that city taxes should be used primarily to benefit the people who pay them, and therefore that bus fares should be raised enough to cover the cost of the service.

Each of the following, if true, would weaken the argument advanced by the city councillors EXCEPT:

- (A) Many businesses whose presence in the city is beneficial to the city's taxpayers would relocate outside the city if public-transit fares were more expensive.
- (B) By providing commuters with economic incentives to drive to work, higher transit fares would worsen air pollution in Greenville and increase the cost of maintaining the city's streets.
- (C) Increasing transit fares would disadvantage those residents of the city whose low incomes make them exempt from city taxes, and all city councillors agree that these residents should be able to take advantage of city-run services.
- (D) Voters in the city, many of whom benefit from the low transit fares, are strongly opposed to increasing local taxes.
- (E) People who work in Greenville and earn wages above the nationally mandated minimum all pay the city wage tax of 5 percent.

GO ON TO THE NEXT PAGE.

20. Government official: Clearly, censorship exists if we, as citizens, are not allowed to communicate what we are ready to communicate at our own expense or if other citizens are not permitted access to our communications at their own expense. Public unwillingness to provide funds for certain kinds of scientific, scholarly, or artistic activities cannot, therefore, be described as censorship.

The flawed reasoning in the government official's argument is most parallel to that in which one of the following?

- (A) All actions that cause unnecessary harm to others are unjust; so if a just action causes harm to others, that action must be necessary.
- (B) Since there is more to good manners than simply using polite forms of address, it is not possible to say on first meeting a person whether or not that person has good manners.
- (C) Acrophobia, usually defined as a morbid fear of heights, can also mean a morbid fear of sharp objects. Since both fears have the same name, they undoubtedly have the same origin.
- (D) There is no doubt that a deed is heroic if the doer risks his or her own life to benefit another person. Thus an action is not heroic if the only thing it endangers is the reputation of the doer.
- (E) Perception of beauty in an object is determined by past and present influences on the mind of the beholder. Thus no object can be called beautiful, since not everyone will see beauty in it.

21. The Japanese *haiku* is defined as a poem of three lines with five syllables in the first line, seven syllables in the second line, and five syllables in the third line. English poets tend to ignore this fact. Disregarding syllable count, they generally call any three-line English poem with a "*haiku* feel" a *haiku*. This demonstrates that English poets have little respect for foreign traditions, even those from which some of their own poetry derives.

The reasoning is flawed because it

- (A) confuses matters of objective fact with matters of subjective feeling
- (B) draws a conclusion that is broader in scope than is warranted by the evidence advanced
- (C) relies on stereotypes instead of presenting evidence
- (D) overlooks the possibility that the case it cites is not unique
- (E) fails to acknowledge that ignoring something implies a negative judgment about that thing

GO ON TO THE NEXT PAGE.

Questions 22–23

No one knows what purposes, if any, dreams serve, although there are a number of hypotheses. According to one hypothesis, dreams are produced when the brain is erasing “parasitic connections” (meaningless, accidental associations between ideas), which accumulate during the day and which would otherwise clog up our memories. Interestingly, the only mammal that does not have rapid eye movement sleep, in which we humans typically have our most vivid dreams, is the spiny anteater, which has been seen as anomalous in that it has a very large brain relative to the animal’s size. This fact provides some confirmation for the parasitic-connection hypothesis, since the hypothesis predicts that for an animal that did not dream to have an effective memory that animal would need extra memory space for the parasitic connections.

22. The parasitic-connection hypothesis, if true, most strongly supports which one of the following?
- (A) The animals with the smallest brains spend the most time sleeping.
 - (B) Immediately after a person awakens from normal sleep, her or his memory contains virtually no accidental associations between ideas.
 - (C) When a mammal that would normally dream is prevented from dreaming, the functioning of its memory will be impaired.
 - (D) Insofar as a person’s description of a dream involves meaningful associations between ideas, it is an inaccurate description.
 - (E) All animals other than the spiny anteater dream.
23. The reasoning in the argument most closely conforms to which one of the following principles?
- (A) Facts about one species of animal can provide confirmation for hypotheses about all species that are similar in all relevant respects to the particular species in question.
 - (B) A hypothesis from which several predictions can be drawn as logical conclusions is confirmed only when the majority of these predictions turn out to be true.
 - (C) A hypothesis about the purpose of an action or object is confirmed when it is shown that the hypothesized purpose is achieved with the help of the action or object and could not be achieved without that action or object.
 - (D) A hypothesis is partially confirmed whenever a prediction derived from that hypothesis provides an explanation for an otherwise unexplained set of facts.
 - (E) When several competing hypotheses exist, one of them is confirmed only when it makes a correct prediction that its rivals fail to make.

GO ON TO THE NEXT PAGE.

24. The body of anyone infected by virus X will, after a week, produce antibodies to fight the virus; the antibodies will increase in number for the next year or so. There is now a test that reliably indicates how many antibodies are present in a person's body. If positive, this test can be used during the first year of infection to estimate to within a month how long that person has had the virus.

Which one of the following conclusions is best supported by the statements above?

- (A) Antibodies increase in number only until they have defeated the virus.
- (B) Without the test for antibodies, there is no way of establishing whether a person has virus X.
- (C) Antibodies are produced only for viral infections that cannot be fought by any other body defenses.
- (D) If a person remains infected by virus X indefinitely, there is no limit to the number of antibodies that can be present in the person's body.
- (E) Anyone infected by virus X will for a time fail to exhibit infection if tested by the antibody test.

25. Large inequalities in wealth always threaten the viability of true democracy, since wealth is the basis of political power, and true democracy depends on the equal distribution of political power among all citizens.

The reasoning in which one of the following arguments most closely parallels the reasoning in the argument above?

- (A) Consumer culture and an emphasis on technological innovation are a dangerous combination, since together they are uncontrollable and lead to irrational excess.
- (B) If Sara went to the bookstore every time her pocket was full, Sara would never have enough money to cover her living expenses, since books are her love and they are getting very expensive.
- (C) It is very difficult to write a successful science fiction novel that is set in the past, since historical fiction depends on historical accuracy, whereas science fiction does not.
- (D) Honesty is important in maintaining friendships. But sometimes honesty can lead to arguments, so it is difficult to predict the effect a particular honest act will have on a friendship.
- (E) Repeated encroachments on one's leisure time by a demanding job interfere with the requirements of good health. The reason is that good health depends on regular moderate exercise, but adequate leisure time is essential to regular exercise.

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

24 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

On the basis of an examination, nine students—Fred, Glen, Hilary, Ida, Jan, Kathy, Laura, Mike, and Nick—are each placed in one of three classes. The three highest scorers are placed in the level 1 class; the three lowest scorers are placed in the level 3 class. The remaining three are placed in the level 2 class. Each class has exactly three students.

Ida scores higher than Glen.

Glen scores higher than both Jan and Kathy.

Jan scores higher than Mike.

Mike scores higher than Hilary.

Hilary scores higher than Nick.

Kathy scores higher than both Fred and Laura.

1. How many different combinations of students could form the level 1 class?
 - (A) one
 - (B) two
 - (C) three
 - (D) four
 - (E) six
2. Which one of the following students could be in the level 2 class but cannot be in the level 3 class?
 - (A) Fred
 - (B) Glen
 - (C) Jan
 - (D) Kathy
 - (E) Nick
3. Which one of the following students could be placed in any one of the three classes?
 - (A) Fred
 - (B) Jan
 - (C) Kathy
 - (D) Laura
 - (E) Mike
4. The composition of each class can be completely determined if which one of the following pairs of students is known to be in the level 2 class?
 - (A) Fred and Kathy
 - (B) Fred and Mike
 - (C) Hilary and Jan
 - (D) Kathy and Laura
 - (E) Laura and Mike
5. Which one of the following pairs of students cannot be in the same class as Fred?
 - (A) Hilary and Nick
 - (B) Jan and Laura
 - (C) Kathy and Laura
 - (D) Jan and Mike
 - (E) Laura and Mike

GO ON TO THE NEXT PAGE.

Questions 6–12

Six reviewers—Frank, George, Hilda, Jackie, Karl, and Lena—will review four movies—*Mystery*, *Retreat*, *Seasonings*, and *Wolves*—according to the following conditions:

Each reviewer reviews exactly one movie, and each movie is reviewed by at least one of the six reviewers.

Hilda reviews the same movie as Frank.

Lena reviews the same movie as exactly one other reviewer.

George reviews *Mystery*.

Jackie reviews either *Mystery* or else *Wolves*.

Hilda does not review *Wolves*.

6. If Lena reviews *Seasonings*, which one of the following must be true?
- (A) Hilda reviews *Retreat*.
 (B) Jackie reviews *Seasonings*.
 (C) Karl reviews *Mystery*.
 (D) Karl reviews *Retreat*.
 (E) Karl reviews *Wolves*.
7. If Karl does not review *Seasonings*, which one of the following must be true?
- (A) Lena reviews *Mystery*.
 (B) Lena reviews *Retreat*.
 (C) Lena reviews *Seasonings*.
 (D) Frank and Hilda review *Retreat*.
 (E) Frank and Hilda review *Seasonings*.
8. Which one of the following is a complete and accurate list of the movies each of which could be the movie that Lena reviews?
- (A) *Mystery*, *Retreat*
 (B) *Retreat*, *Seasonings*
 (C) *Mystery*, *Seasonings*, *Wolves*
 (D) *Retreat*, *Seasonings*, *Wolves*
 (E) *Mystery*, *Retreat*, *Seasonings*, *Wolves*
9. Which one of the following can be true?
- (A) Frank and George review *Mystery*.
 (B) Frank and Lena review *Wolves*.
 (C) George and Jackie review *Mystery*.
 (D) Karl reviews *Wolves* and Lena reviews *Mystery*.
 (E) Lena reviews *Retreat* and Frank reviews *Seasonings*.
10. Lena can review any of the following EXCEPT
- (A) *Mystery* with George
 (B) *Mystery* with Karl
 (C) *Retreat* with Karl
 (D) *Seasonings* with Karl
 (E) *Wolves* with Jackie
11. If Karl reviews the same movie as exactly one other reviewer, which one of the following is a complete and accurate list of the movies any one of which could be the movie that these two reviewers review?
- (A) *Mystery*, *Retreat*
 (B) *Mystery*, *Seasonings*
 (C) *Retreat*, *Seasonings*
 (D) *Mystery*, *Seasonings*, *Wolves*
 (E) *Retreat*, *Seasonings*, *Wolves*
12. Which one of the following is an acceptable assignment of reviewers to movies?
- | | <i>Mystery</i> | <i>Retreat</i> | <i>Seasonings</i> | <i>Wolves</i> |
|-----|----------------|----------------|-------------------|---------------|
| (A) | George | Frank, Hilda | Jackie, Lena | Karl |
| (B) | George | Frank, Hilda | Karl, Lena | Jackie |
| (C) | George | Karl, Lena | Jackie | Frank, Hilda |
| (D) | George, Karl | Frank, Hilda | Lena | Jackie |
| (E) | Jackie | George, Lena | Frank, Hilda | Karl |

GO ON TO THE NEXT PAGE.

Questions 13–18

In a game, “words” (real or nonsensical) consist of any combination of at least four letters of the English alphabet. Any “sentence” consists of exactly five words and satisfies the following conditions:

The five words are written from left to right on a single line in alphabetical order.

The sentence is started by any word, and each successive word is formed by applying exactly one of three operations to the word immediately to its left: delete one letter; add one letter; replace one letter with another letter.

At most three of the five words begin with the same letter as one another.

Except for the leftmost word, each word is formed by a different operation from that which formed the word immediately to its left.

13. Which one of the following could be a sentence in the word game?

(A) bzeak bleak leak peak pea
 (B) crbek creek reek seek sxeek
 (C) dteam gleam glean lean mean
 (D) feed freed reed seed seeg
 (E) food fool fools fopls oplis

14. The last letter of the alphabet that the first word of a sentence in the word game can begin with is

(A) t
 (B) w
 (C) x
 (D) y
 (E) z

15. If the first word in a sentence is “blender” and the third word is “slender,” then the second word can be

(A) bender
 (B) gender
 (C) lender
 (D) sender
 (E) tender

16. If the first word in a sentence consists of nine letters, then the minimum number of letters that the fourth word can contain is

(A) four
 (B) five
 (C) six
 (D) seven
 (E) eight

17. If “clean” is the first word in a sentence and “learn” is another word in the sentence, then which one of the following is a complete and accurate list of the positions each of which could be the position in which “learn” occurs in the sentence?

(A) second
 (B) third
 (C) fourth, fifth
 (D) second, third, fourth
 (E) third, fourth, fifth

18. If the first word in a sentence consists of four letters, then the maximum number of letters that the fifth word in this sentence could contain is

(A) four
 (B) five
 (C) six
 (D) seven
 (E) eight

GO ON TO THE NEXT PAGE.

Questions 19–24

A soloist will play six different guitar concertos, exactly one each Sunday for six consecutive weeks. Two concertos will be selected from among three concertos by Giuliani—H, J, and K; two from among four concertos by Rodrigo—M, N, O, and P; and two from among three concertos by Vivaldi—X, Y, and Z. The following conditions apply without exception:

If N is selected, then J is also selected.

If M is selected, then neither J nor O can be selected.

If X is selected, then neither Z nor P can be selected.

If both J and O are selected, then J is played at some time before O.

X cannot be played on the fifth Sunday unless one of Rodrigo's concertos is played on the first Sunday.

19. Which one of the following is an acceptable selection of concertos that the soloist could play on the first through the sixth Sunday?

- | | | | | | | |
|-----|----------|----------|----------|----------|----------|----------|
| | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> |
| (A) | H | Z | M | N | Y | K |
| (B) | K | J | Y | O | Z | N |
| (C) | K | Y | P | J | Z | M |
| (D) | P | Y | J | H | X | O |
| (E) | X | N | K | O | J | Z |

20. If the six concertos to be played are J, K, N, O, Y, and Z and if N is to be played on the first Sunday, then which one of the following concertos CANNOT be played on the second Sunday?

- (A) J
(B) K
(C) O
(D) Y
(E) Z

21. If J, O, and Y are the first three concertos to be played, not necessarily in the order given, which one of the following is a concerto that CANNOT be played on the fifth Sunday?

- (A) H
(B) K
(C) N
(D) P
(E) X

22. If O is selected for the first Sunday, which one of the following is a concerto that must also be selected?

- (A) J
(B) K
(C) M
(D) N
(E) X

23. Which one of the following is a concerto that must be selected?

- (A) J
(B) K
(C) O
(D) Y
(E) Z

24. Which one of the following is a concerto that CANNOT be selected together with N?

- (A) M
(B) O
(C) P
(D) X
(E) Z

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

27 Questions

Directions: Each passage in this section is followed by a group of questions to be answered on the basis of what is stated or implied in the passage. 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.

Oil companies need offshore platforms primarily because the oil or natural gas the companies extract from the ocean floor has to be processed before pumps can be used to move the substances ashore.

- (5) But because processing crude (unprocessed oil or gas) on a platform rather than at facilities onshore exposes workers to the risks of explosion and to an unpredictable environment, researchers are attempting to diminish the need for human labor on platforms and even to eliminate platforms altogether by redesigning two kinds of pumps to handle crude. These pumps could then be used to boost the natural pressure driving the flow of crude, which, by itself, is sufficient only to bring the crude to the platform, located just above the wellhead. Currently, pumps that could boost this natural pressure sufficiently to drive the crude through a pipeline to the shore do not work consistently because of the crude's content. Crude
- (20) may consist of oil or natural gas in multiphase states—combinations of liquids, gases, and solids under pressure—that do not reach the wellhead in constant proportions. The flow of crude oil, for example, can change quickly from 60 percent liquid to 70 percent gas. This surge in gas content causes loss of “head,” or pressure inside a pump, with the result that a pump can no longer impart enough energy to transport the crude mixture through the pipeline and to the shore.

- (30) Of the two pumps being redesigned, the positive-displacement pump is promising because it is immune to sudden shifts in the proportion of liquid to gas in the crude mixture. But the pump's design, which consists of a single or twin screw pushing the fluid from one end of the pump to the other, brings crude into close contact with most parts of the pump, and thus requires that it be made of expensive, corrosion-resistant material. The alternative is the centrifugal pump, which has a rotating impeller that sucks fluid in at one end and forces fluid out at the other. Although this pump has a proven design and has worked for years with little maintenance in waste-disposal plants, researchers have discovered that because the swirl
- (40) of its impeller separates gas out from the oil that normally accompanies it, significant reductions in head can occur as it operates.

- (45) Research in the development of these pumps is focused mainly on trying to reduce the cost of the positive-displacement pump and attempting to
- (50)

make the centrifugal pump more tolerant of gas. Other researchers are looking at ways of adapting either kind of pump for use underwater, so that crude could be moved directly from the sea bottom to processing facilities onshore, eliminating platforms.

- (55)
1. Which one of the following best expresses the main idea of the passage?
 - (A) Oil companies are experimenting with technologies that may help diminish the danger to workers from offshore crude processing.
 - (B) Oil companies are seeking methods of installing processing facilities underwater.
 - (C) Researchers are developing several new pumps designed to enhance human labor efficiency in processing facilities.
 - (D) Researchers are seeking to develop equipment that would preempt the need for processing facilities onshore.
 - (E) Researchers are seeking ways to separate liquids from gases in crude in order to enable safer processing.
 2. The passage supports which one of the following statements about the natural pressure driving the flow of crude?
 - (A) It is higher than that created by the centrifugal pump.
 - (B) It is constant, regardless of relative proportions of gas and liquid.
 - (C) It is able to carry the crude only as far as the wellhead.
 - (D) It is able to carry the crude to the platform.
 - (E) It is able to carry the crude to the shore.

GO ON TO THE NEXT PAGE.

3. Which one of the following best describes the relationship of the second paragraph to the passage as a whole?
- (A) It offers concrete detail designed to show that the argument made in the first paragraph is flawed.
 - (B) It provides detail that expands upon the information presented in the first paragraph.
 - (C) It enhances the author's discussion by objectively presenting in detail the pros and cons of a claim made in the first paragraph.
 - (D) It detracts from the author's discussion by presenting various problems that qualify the goals presented.
 - (E) It modifies an observation made in the first paragraph by detailing viewpoints against it.
4. Which one of the following phrases, if substituted for the word "head" in line 47, would LEAST change the meaning of the sentence?
- (A) the flow of the crude inside the pump
 - (B) the volume of oil inside the pump
 - (C) the volume of gas inside the pump
 - (D) the speed of the impeller moving the crude
 - (E) the pressure inside of the pump
5. With which one of the following statements regarding offshore platforms would the author most likely agree?
- (A) If a reduction of human labor on offshore platforms is achieved, there is no real need to eliminate platforms altogether.
 - (B) Reducing human labor on offshore platforms is desirable because researchers' knowledge about the transportation of crude is dangerously incomplete.
 - (C) The dangers involved in working on offshore platforms make their elimination a desirable goal.
 - (D) The positive-displacement pump is the better alternative for researchers, because it would allow them to eliminate platforms altogether.
 - (E) Though researchers have succeeded in reducing human labor on offshore platforms, they think that it would be inadvisable to eliminate platforms altogether, because these platforms have other uses.
6. Which one of the following can be inferred from the passage about pumps that are currently available to boost the natural pressure of crude?
- (A) The efficiency of these pumps depends on there being no gas in the flow of crude.
 - (B) These pumps are more efficient when the crude is less subject to sudden increases in the proportion of gas to liquid.
 - (C) A sudden change from solid to liquid in the flow of crude increases the efficiency of these pumps.
 - (D) The proportion of liquid to gas in the flow of crude does not affect the efficiency of these pumps.
 - (E) A sudden change from liquid to gas in the flow of crude increases the risk of explosion due to rising pressure inside these pumps.
7. The passage implies that the positive-displacement pump differs from the centrifugal pump in that the positive-displacement pump
- (A) is more promising, but it also is more expensive and demands more maintenance
 - (B) is especially well researched, since it has been used in other settings
 - (C) involves the use of a single or twin screw that sucks fluid in at one end of the pump
 - (D) is problematic because it causes rapid shifts from liquid to gas content in crude
 - (E) involves exposure of many parts of the pump to crude
8. The passage implies that the current state of technology necessitates that crude be moved to shore
- (A) in a multiphase state
 - (B) in equal proportions of gas to liquid
 - (C) with small proportions of corrosive material
 - (D) after having been processed
 - (E) largely in the form of a liquid

GO ON TO THE NEXT PAGE.

To critics accustomed to the style of fifteenth-century narrative paintings by Italian artists from Tuscany, the Venetian examples of narrative paintings with religious subjects that Patricia Fortini Brown analyzes in a recent book will come as a great surprise. While the Tuscan paintings present large-scale figures, clear narratives, and simple settings, the Venetians filled their pictures with dozens of small figures and elaborate buildings, in addition to a wealth of carefully observed anecdotal detail often irrelevant to the paintings' principal subjects—the religious stories they narrate. Although it occasionally obscured these stories, this accumulation of circumstantial detail from Venetian life—the inclusion of prominent Venetian citizens, for example—was considered appropriate to the narration of historical subjects and underlined the authenticity of the historical events depicted. Indeed, Brown argues that the distinctive style of the Venetian paintings—what she calls the “eyewitness style”—was influenced by Venetian affinity for a strongly parochial type of historical writing, consisting almost exclusively of vernacular chronicles of local events embroidered with all kinds of inconsequential detail.

And yet, while Venetian attitudes toward history that are reflected in their art account in part for the difference in style between Venetian and Tuscan narrative paintings, Brown has overlooked some practical influences, such as climate. Tuscan churches are filled with frescoes that, in contrast to Venetian narrative paintings, consist mainly of large figures and easily recognized religious stories, as one would expect of paintings that are normally viewed from a distance and are designed primarily to remind the faithful of their religious tenets. In Venice, where the damp climate is unsuited to fresco, narrative frescoes in churches were almost nonexistent, with the result that Venetian artists and their public had no practical experience of the large-scale representation of familiar religious stories. Their model for painted stories was the cycle of secular historical paintings in the Venetian magistrate's palace, which were indeed the counterpart of written history and were made all the more authoritative by a proliferation of circumstantial detail.

Moreover, because painting frescoes requires an unusually sure hand, particularly in the representation of the human form, the development of drawing skill was central to artistic training in Tuscany, and by 1500 the public there tended to distinguish artists on the basis of how well they could draw human figures. In Venice, a city virtually without frescoes, this kind of skill was acquired and appreciated much later. Gentile Bellini, for example, although regarded as one of the supreme painters of the day, was feeble at drawing. On the other hand, the emphasis on architecture so evident

in the Venetian narrative paintings was something that local painters obviously prized, largely because painting architecture in perspective was seen as a particular test of the Venetian painter's skill.

9. Which one of the following best states the main idea of the passage?
 - (A) Tuscan painters' use of fresco explains the prominence of human figures in the narrative paintings that they produced during the fifteenth century.
 - (B) In addition to fifteenth-century Venetian attitudes toward history, other factors may help to explain the characteristic features of Venetian narrative paintings with religious subjects produced during that period.
 - (C) The inclusion of authentic detail from Venetian life distinguished fifteenth-century Venetian narrative paintings from those that were produced in Tuscany.
 - (D) Venetian painters were generally more skilled at painting buildings than Tuscan painters were at drawing human forms.
 - (E) The cycle of secular historical paintings in the Venetian magistrate's palace was the primary influence on fifteenth-century Venetian narrative paintings with religious subjects.
10. In the passage, the author is primarily concerned with
 - (A) pointing out the superiority of one painting style over another
 - (B) citing evidence that requires a reevaluation of a conventionally held view
 - (C) discussing factors that explain a difference in painting styles
 - (D) outlining the strengths and weaknesses of two opposing views regarding the evolution of a painting style
 - (E) arguing for the irrelevance of one theory and for its replacement by a more plausible alternative

GO ON TO THE NEXT PAGE.

11. As it is described in the passage, Brown's explanation of the use of the eyewitness style in Venetian narrative painting suggests that
- (A) the painting of architecture in perspective requires greater drawing skill than does the representation of a human form in a fresco
 - (B) certain characteristics of a style of painting can reflect a style of historical writing that was common during the same period
 - (C) the eyewitness style in Venetian narrative paintings with religious subjects was largely the result of the influence of Tuscan artists who worked primarily in fresco
 - (D) the historical detail in Venetian narrative paintings with religious subjects can be traced primarily to the influence of the paintings in the Venetian magistrate's palace
 - (E) a style of painting can be dramatically transformed by a sudden influx of artists from another region
12. The author suggests that fifteenth-century Venetian narrative paintings with religious subjects were painted by artists who
- (A) were able to draw human figures with more skill after they were apprenticed to painters in Tuscany
 - (B) assumed that their paintings would typically be viewed from a distance
 - (C) were a major influence on the artists who produced the cycle of historical paintings in the Venetian magistrate's palace
 - (D) were reluctant to paint frescoes primarily because they lacked the drawing skill that painting frescoes required
 - (E) were better at painting architecture in perspective than they were at drawing human figures
13. The author implies that Venetian narrative paintings with religious subjects included the representation of elaborate buildings in part because
- (A) the ability to paint architecture in perspective was seen in Venice as proof of a painter's skill
 - (B) the subjects of such paintings were often religious stories
 - (C) large frescoes were especially conducive to representing architecture in perspective
 - (D) the architecture of Venice in the fifteenth century was more elaborate than was the architecture of Tuscany
 - (E) the paintings were imitations of a kind of historical writing that was popular in Tuscany
14. Which one of the following, if true, would most weaken the author's contention that fifteenth-century Venetian artists "had no practical experience of the large-scale representation of familiar religious stories" (lines 40–42)?
- (A) The style of secular historical paintings in the palace of the Venetian magistrate was similar to that of Venetian narrative paintings with religious subjects.
 - (B) The style of the historical writing produced by fifteenth-century Venetian authors was similar in its inclusion of anecdotal details to secular paintings produced during that century in Tuscany.
 - (C) Many of the artists who produced Venetian narrative paintings with religious subjects served as apprentices in Tuscany, where they had become familiar with the technique of painting frescoes.
 - (D) Few of the frescoes painted in Tuscany during the fifteenth century had secular subjects, and those that did often betrayed the artist's inability to represent elaborate architecture in perspective.
 - (E) Few of the Venetian narrative paintings produced toward the end of the fifteenth century show evidence of the enhanced drawing skill that characterized the paintings produced in Venice a century later.

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Currently, legal scholars agree that in some cases legal rules do not specify a definite outcome. These scholars believe that such indeterminacy results from the vagueness of language: the boundaries of the application of a term are often unclear.

- (5) Nevertheless, they maintain that the system of legal rules by and large rests on clear core meanings that do determine definite outcomes for most cases. Contrary to this view, an earlier group of legal philosophers, called “realists,” argued that indeterminacy pervades every part of the law.

The realists held that there is always a cluster of rules relevant to the decision in any litigated case. For example, deciding whether an aunt’s promise to pay her niece a sum of money if she refrained from smoking is enforceable would involve a number of rules regarding such issues as offer, acceptance, and revocation. Linguistic vagueness in any one of these rules would affect the outcome of the case, making possible multiple points of indeterminacy, not just one or two, in any legal case.

- (15) For the realists, an even more damaging kind of indeterminacy stems from the fact that in a common-law system based on precedent, a judge’s decision is held to be binding on judges in subsequent similar cases. Judicial decisions are expressed in written opinions, commonly held to consist of two parts: the holding (the decision for or against the plaintiff and the essential grounds or legal reasons for it, that is, what subsequent judges are bound by), and the dicta (everything in an opinion not essential to the decision, for example, comments about points of law not treated as the basis of the outcome). The realists argued that in practice the common-law system treats the “holding/dicta” distinction loosely. They pointed out that even when the judge writing an opinion characterizes part of it as “the holding,” judges writing subsequent opinions, although unlikely to dispute the decision itself, are not bound by the original judge’s perception of what was essential to the decision. Later judges have tremendous leeway in being able to redefine the holding and the dicta in a precedential case. This leeway enables judges to choose which rules of law formed the basis of the decision in the earlier case. When judging almost any case, then, a judge can find a relevant precedential case which, in subsequent opinions, has been read by one judge as stating one legal rule, and by another judge as stating another, possibly contradictory one. A judge thus faces an indeterminate legal situation in which he or she has to choose which rules are to govern the case at hand.

15. According to the passage, the realists argued that which one of the following is true of a common-law system?
- (A) It gives rise to numerous situations in which the decisions of earlier judges are found to be in error by later judges.
- (B) It possesses a clear set of legal rules in theory, but in practice most judges are unaware of the strict meaning of those rules.
- (C) Its strength lies in the requirement that judges decide cases according to precedent rather than according to a set of abstract principles.
- (D) It would be improved if judges refrained from willfully misinterpreting the written opinions of prior judges.
- (E) It treats the difference between the holding and the dicta in a written opinion rather loosely in practice.
16. According to the passage, which one of the following best describes the relationship between a judicial holding and a judicial decision?
- (A) The holding is not commonly considered binding on subsequent judges, but the decision is.
- (B) The holding formally states the outcome of the case, while the decision explains it.
- (C) The holding explains the decision but does not include it.
- (D) The holding consists of the decision and the dicta.
- (E) The holding sets forth and justifies a decision.
17. The information in the passage suggests that the realists would most likely have agreed with which one of the following statements about the reaction of judges to past interpretations of a precedential case, each of which states a different legal rule?
- (A) The judges would most likely disagree with one or more of the interpretations and overturn the earlier judges’ decisions.
- (B) The judges might differ from each other concerning which of the interpretations would apply in a given case.
- (C) The judges probably would consider themselves bound by all the legal rules stated in the interpretations.
- (D) The judges would regard the lack of unanimity among interpretations as evidence that no precedents existed.
- (E) The judges would point out in their holdings the inherent contradictions arising from the earlier judges’ differing interpretations.

18. It can be inferred from the passage that most legal scholars today would agree with the realists that
- (A) linguistic vagueness can cause indeterminacy regarding the outcome of a litigated case
 - (B) in any litigated case, several different and possibly contradictory legal rules are relevant to the decision of the case
 - (C) the distinction between holding and dicta in a written opinion is usually difficult to determine in practice
 - (D) the boundaries of applicability of terms may sometimes be difficult to determine, but the core meanings of the terms are well established
 - (E) a common-law system gives judges tremendous leeway in interpreting precedents, and contradictory readings of precedential cases can usually be found
19. The passage suggests that the realists believed which one of the following to be true of the dicta in a judge's written opinion?
- (A) The judge writing the opinion is usually careful to specify those parts of the opinion he or she considers part of the dicta.
 - (B) The appropriateness of the judge's decision would be disputed by subsequent judges on the basis of legal rules expressed in the dicta.
 - (C) A consensus concerning what constitutes the dicta in a judge's opinion comes to be fixed over time as subsequent similar cases are decided.
 - (D) Subsequent judges can consider parts of what the original judge saw as the dicta to be essential to the original opinion.
 - (E) The judge's decision and the grounds for it are usually easily distinguishable from the dicta.
20. Which one of the following best describes the overall organization of the passage?
- (A) A traditional point of view is explained and problems arising from it are described.
 - (B) Two conflicting systems of thought are compared point for point and then evaluated.
 - (C) A legal concept is defined and arguments justifying that definition are refuted.
 - (D) Two viewpoints on an issue are briefly described and one of those viewpoints is discussed at greater length.
 - (E) A theoretical description of how a system develops is contrasted with the actual practices characterizing the system.
21. Which one of the following titles best reflects the content of the passage?
- (A) Legal Indeterminacy: The Debate Continues
 - (B) Holding Versus Dicta: A Distinction Without a Difference
 - (C) Linguistic Vagueness: Is It Circumscribed in Legal Terminology?
 - (D) Legal Indeterminacy: The Realist's View of Its Scope
 - (E) Legal Rules and the Precedential System: How Judges Interpret the Precedents

GO ON TO THE NEXT PAGE.

- (5) Years after the movement to obtain civil rights for black people in the United States made its most important gains, scholars are reaching for a theoretical perspective capable of clarifying its momentous developments. New theories of social movements are being discussed, not just among social psychologists, but also among political theorists.

- (10) Of the many competing formulations of the "classical" social psychological theory of social movement, three are prominent in the literature on the civil rights movement: "rising expectations," "relative deprivation," and "J-curve." Each conforms to a causal sequence characteristic of classical social movement theory, linking some unusual condition, or "system strain," to the generation of unrest. When these versions of the classical theory are applied to the civil rights movement, the source of strain is identified as a change in black socioeconomic status that occurred shortly before the widespread protest activity of the movement.

- (20) For example, the theory of rising expectations asserts that protest activity was a response to psychological tensions generated by gains experienced immediately prior to the civil rights movement. Advancement did not satisfy ambition, but created the desire for further advancement. Only slightly different is the theory of relative deprivation. Here the impetus to protest is identified as gains achieved during the premovement period, coupled with simultaneous failure to make any appreciable headway relative to the dominant group. The J-curve theory argues that the movement occurred because a prolonged period of rising expectations and gratification was followed by a sharp reversal.

- (35) Political theorists have been dismissive of these applications of classical theory to the civil rights movement. Their arguments rest on the conviction that, implicitly, the classical theory trivializes the political ends of movement participants, focusing rather on presumed psychological dysfunctions; reduction of complex social situations to simple paradigms of stimulus and response obviates the relevance of all but the shortest-term analysis. Furthermore, the theories lack predictive value: "strain" is always present to some degree, but social movement is not. How can we know which strain will provoke upheaval?

- (50) These very legitimate complaints having frequently been made, it remains to find a means of testing the strength of the theories. Problematically, while proponents of the various theories have contradictory interpretations of socioeconomic conditions leading to the civil rights movement, examination of various statistical records regarding the material status of black Americans yields ample evidence to support any of the three theories. The steady rise in median black family income supports

- (65) the rising expectations hypothesis; the stability of the economic position of black vis-à-vis white Americans lends credence to the relative deprivation interpretation; unemployment data are consistent with the J-curve theory. A better test is the comparison of each of these economic indicators with the frequency of movement-initiated events reported in the press; unsurprisingly, none correlates significantly with the pace of reports about movement activity.

- (70) 22. It can be inferred from the passage that the classical theory of social movement would not be appropriately applied to an annual general election because such an election

- (A) may focus on personalities rather than on political issues
- (B) is not provoked primarily by an unusual condition
- (C) may be decided according to the psychological needs of voters
- (D) may not entail momentous developments
- (E) actually entails two or more distinct social movements

23. According to the passage, the "rising expectations" and "relative deprivation" models differ in which one of the following ways?

- (A) They predict different responses to the same socioeconomic conditions.
- (B) They disagree about the relevance of psychological explanations for protest movements.
- (C) They are meant to explain different kinds of social change.
- (D) They describe the motivation of protesters in slightly different ways.
- (E) They disagree about the relevance of socioeconomic status to system strain.

24. The author implies that political theorists attribute which one of the following assumptions to social psychologists who apply the classical theory of social movements to the civil rights movement?

- (A) Participants in any given social movement have conflicting motivations.
- (B) Social movements are ultimately beneficial to society.
- (C) Only strain of a socioeconomic nature can provoke a social movement.
- (D) The political ends of movement participants are best analyzed in terms of participants' psychological motivations.
- (E) Psychological motivations of movement participants better illuminate the causes of social movements than do participants' political motivations.

25. Which one of the following statements is supported by the results of the “better test” discussed in the last paragraph of the passage?
- (A) The test confirms the three classical theories discussed in the passage.
 - (B) The test provides no basis for deciding among the three classical theories discussed in the passage.
 - (C) The test shows that it is impossible to apply any theory of social movements to the civil rights movement.
 - (D) The test indicates that press coverage of the civil rights movement was biased.
 - (E) The test verifies that the civil rights movement generated socioeconomic progress.
26. The validity of the “better test” (line 65) as proposed by the author might be undermined by the fact that
- (A) the press is selective about the movement activities it chooses to cover
 - (B) not all economic indicators receive the same amount of press coverage
 - (C) economic indicators often contradict one another
 - (D) a movement-initiated event may not correlate significantly with any of the three economic indicators
 - (E) the pace of movement-initiated events is difficult to anticipate
27. The main purpose of the passage is to
- (A) persuade historians of the indispensability of a theoretical framework for understanding recent history
 - (B) present a new model of social movement
 - (C) account for a shift in a theoretical debate
 - (D) show the unity underlying the diverse classical models of social movement
 - (E) discuss the reasoning behind and shortcomings of certain social psychological theories

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

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.

Questions 1–2

A physician who is too thorough in conducting a medical checkup is likely to subject the patient to the discomfort and expense of unnecessary tests. One who is not thorough enough is likely to miss some serious problem and therefore give the patient a false sense of security. It is difficult for physicians to judge exactly how thorough they should be. Therefore, it is generally unwise for patients to have medical checkups when they do not feel ill.

1. Which one of the following, if true, would most seriously weaken the argument in the passage?
 - (A) Some serious diseases in their early stages have symptoms that physicians can readily detect, although patients are not aware of any problem.
 - (B) Under the pressure of reduced reimbursements, physicians have been reducing the average amount of time they spend on each medical checkup.
 - (C) Patients not medically trained are unable to judge for themselves what degree of thoroughness is appropriate for physicians in conducting medical checkups.
 - (D) Many people are financially unable to afford regular medical checkups.
 - (E) Some physicians sometimes exercise exactly the right degree of thoroughness in performing a medical checkup.
2. Which one of the following, if true, would provide the most support for the conclusion in the passage?
 - (A) Not all medical tests entail significant discomfort.
 - (B) Sometimes, unnecessary medical tests cause healthy people to become ill.
 - (C) Some patients refuse to accept a physician's assurance that the patient is healthy.
 - (D) The more complete the series of tests performed in a medical checkup, the more likely it is that a rare disease, if present, will be discovered.
 - (E) Physicians can eliminate the need to order certain tests by carefully questioning patients and rejecting some possibilities on that basis.

3. People often pronounce a word differently when asked to read written material aloud than when speaking spontaneously. These differences may cause problems for those who develop computers that recognize speech. Usually the developers "train" the computers by using samples of written material read by the people who will be using the computer.

The observations above provide most evidence for the conclusion that

- (A) it will be impossible to develop computers that decode spontaneous speech
 - (B) when reading written material, people who have different accents pronounce the same word in the same way as one another
 - (C) computers may be less reliable in decoding spontaneous speech than in decoding samples that have been read aloud
 - (D) a "trained" computer never correctly decodes the spontaneous speech of a person whose voice sample was used to train it
 - (E) computers are now able to interpret oral speech without error
4. One of the requirements for admission to the Lunnville Roller Skating Club is a high degree of skill in roller skating. The club president has expressed concern that the club may have discriminated against qualified women in its admissions this year. Yet half of the applicants admitted to the club this year were women. This proves that there was no discrimination against qualified women applicants in the club's admissions this year.

Which one of the following is an assumption on which the conclusion of the argument depends?

- (A) Only a few applicants were found to be qualified and were admitted to the club this year.
- (B) No more than half of all the roller skaters in Lunnville are women.
- (C) No more than half of all the roller skaters in Lunnville are men.
- (D) This year no more than half of the applicants who met all the qualifications for admission to the club were women.
- (E) This year no more than half of the members of the club's committee that makes decisions about applicants' qualifications were men.

GO ON TO THE NEXT PAGE.

5. When girls are educated in single-sex secondary schools, they tend to do better academically than girls who attend mixed-sex schools. Since Alice achieved higher grades than any other woman in her first year at the university, she was probably educated at a single-sex school.

Which one of the following most closely parallels the flawed reasoning used in the argument above?

- (A) When students have individual tutoring in math, they usually get good grades on their final exams. Celia had individual tutoring in math so she will probably get a good grade.
- (B) When babies are taught to swim, they have more than the average number of ear infections as they grow up. Janice has more ear infections than any other person at the local swimming club, so she probably was taught to swim when she was a baby.
- (C) When children study music at an early age, they later tend to appreciate a wide variety of music, so the talent of future musicians is best fostered at an early age.
- (D) When children practice their piano scales for half an hour each day, they usually pass their piano exams. Sally practices scales for less than half an hour each day, so she will probably fail her piano exam.
- (E) When children have parents who help them with their homework, they usually do well in school. Therefore, having help with homework is probably the cause of high academic achievement.

6. In the past century, North America has shifted its main energy source first from wood to coal, then from coal to oil and natural gas. With each transition, the newly dominant fuel has had less carbon and more hydrogen than its predecessor had. It is logical to conclude that in the future the main energy source will be pure hydrogen.

Which one of the following expresses a general principle that could underlie the argument?

- (A) If a series of transitions from one state of a system to another state of that system is allowed to continue without interference, the initial state of the series will eventually recur.
- (B) If each of two desirable attributes belongs to a useful substance, then the most useful form of that substance will have those two attributes in equal amounts.
- (C) If the second stage of a process has been completed more quickly than the first stage, the third stage of that process will be completed more quickly than the second stage.
- (D) If each step in a series of changes involves a decrease of one attribute of the thing undergoing the change and an increase of another, the series will terminate with the first attribute eliminated and only the second attribute present.
- (E) If one substance is better for a certain purpose than another substance is, then the best substance for that purpose is one that includes among its attributes all of the attributes of the first substance and none of the attributes of the second substance.

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Questions 7–8

X: Since many chemicals useful for agriculture and medicine derive from rare or endangered plant species, it is likely that many plant species that are now extinct could have provided us with substances that would have been a boon to humanity. Therefore, if we want to ensure that chemicals from plants are available for use in the future, we must make more serious efforts to preserve for all time our natural resources.

Y: But living things are not our “resources.” Yours is a selfish approach to conservation. We should rather strive to preserve living species because they deserve to survive, not because of the good they can do us.

7. Which one of the following is an issue about which X and Y disagree?

- (A) whether the benefits humans derive from exploiting nonhuman species provide a good reason for preserving nonhuman species
- (B) whether the cost of preserving plant species outweighs the cost of artificially synthesizing chemicals that could otherwise be derived from those species
- (C) whether it is prudent to conserve natural resources
- (D) whether humans should make efforts to prevent the extinction of living species
- (E) whether all nonhuman species are equally valuable as natural resources

8. X’s argument relies on which one of the following assumptions?

- (A) Medicine would now be more advanced than it is if there had been a serious conservation policy in the past.
- (B) All living things exist to serve humankind.
- (C) The use of rare and endangered plant species as a source for chemicals will not itself render those species extinct.
- (D) The only way to persuade people to preserve natural resources is to convince them that it is in their interest to do so.
- (E) Few, if any, plant species have been saved from extinction through human efforts.

9. There is relatively little room for growth in the overall carpet market, which is tied to the size of the population. Most who purchase carpet do so only once or twice, first in their twenties or thirties, and then perhaps again in their fifties or sixties. Thus as the population ages, companies producing carpet will be able to gain market share in the carpet market only through purchasing competitors, and not through more aggressive marketing.

Which one of the following, if true, casts the most doubt on the conclusion above?

- (A) Most of the major carpet producers market other floor coverings as well.
- (B) Most established carpet producers market several different brand names and varieties, and there is no remaining niche in the market for new brands to fill.
- (C) Two of the three mergers in the industry’s last ten years led to a decline in profits and revenues for the newly merged companies.
- (D) Price reductions, achieved by cost-cutting in production, by some of the dominant firms in the carpet market are causing other producers to leave the market altogether.
- (E) The carpet market is unlike most markets in that consumers are becoming increasingly resistant to new patterns and styles.

10. Decision makers tend to have distinctive styles. One such style is for the decision maker to seek the widest possible input from advisers and to explore alternatives while making up his or her mind. In fact, decision makers of this sort will often argue vigorously for a particular idea, emphasizing its strong points and downplaying its weaknesses, not because they actually believe in the idea but because they want to see if their real reservations about it are idiosyncratic or are held independently by their advisers.

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

- (A) If certain decision makers’ statements are quoted accurately and at length, the content of the quote could nonetheless be greatly at variance with the decision eventually made.
- (B) Certain decision makers do not know which ideas they do not really believe in until after they have presented a variety of ideas to their advisers.
- (C) If certain decision makers dismiss an idea out of hand, it must be because its weaknesses are more pronounced than any strong points it may have.
- (D) Certain decision makers proceed in a way that makes it likely that they will frequently decide in favor of ideas in which they do not believe.
- (E) If certain decision makers’ advisers know the actual beliefs of those they advise, those advisers will give better advice than they would if they did not know those beliefs.

Questions 11–12

The foreign minister of Zeria announced today that her country was severing diplomatic relations with Nandalo because of Nandalo's flagrant violations of human rights. But Zeria continues to maintain diplomatic relations with many countries that the minister knows to have far worse human-rights records than Nandalo does. Therefore, despite the foreign minister's claim, this latest diplomatic move cannot be explained exclusively by Zeria's commitment to upholding human rights.

11. Which one of the following, if true, provides the most support for the argument in the passage?
- (A) The country that currently buys most of Zeria's exports recently suggested that it might severely restrict its imports from Zeria unless Zeria broke off diplomatic relations with Nandalo.
 - (B) Two weeks after the Zerian minister's announcement, several other countries cited human-rights violations as a reason for severing diplomatic relations with Nandalo.
 - (C) More countries have expressed concern over reported human-rights violations in Nandalo than have expressed concern over human-rights violations in Zeria.
 - (D) Nandalo has considered accusing Zeria of violating the human rights of Nandalo citizens living in Zeria.
 - (E) The opposition party in Zeria has long advocated severing trade relations with countries that systematically violate human rights but has opposed severing diplomatic relations.
12. The argumentative structure of which one of the following most closely parallels that of the argument in the passage?
- (A) Henry's parents insist that he eat breakfast before leaving for school because not doing so would be bad for his health. But his parents themselves almost never eat breakfast, so their insistence cannot be completely explained by their concern for his health.
 - (B) Professor Walsh says that only typed term papers will be accepted because most handwriting is difficult to read. But since she lectures from handwritten notes, her policy cannot be exclusively explained by any difficulty she has with handwritten material.
 - (C) James claims that he stole only because he was hungry. But although hunger could account for stealing if food could not be readily obtained in any other way, in this case food was otherwise readily available, and so James' theft cannot be completely explained by his hunger.
 - (D) Armand declined Helen's invitation to dinner on the grounds that socializing with coworkers is imprudent. But since Armand went to a movie with another coworker, Maria, that same evening, his expressed concern for prudence cannot fully explain his refusal.
 - (E) It is often asserted that there are fewer good teachers than there used to be because teachers' salaries have reached a new low. But teachers have always been poorly paid, so low salaries cannot fully explain this perceived decline in the effectiveness of teachers.

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13. Few politicians will support legislation that conflicts with their own self-interest. A case in point is August Frenson, who throughout his eight terms in office consistently opposed measures limiting the advantage incumbents enjoy over their challengers. Therefore, if such measures are to be enacted, they must result from direct popular vote rather than from legislative action.

The case of August Frenson plays which one of the following roles in the argument?

- (A) It provides evidence, the falsity of which would guarantee the falsity of the author's conclusion.
 - (B) It is cited as an example illustrating the generalization that is invoked.
 - (C) It gives essential background information concerning a measure being advocated.
 - (D) It demonstrates the extent to which incumbents have the advantage over challengers.
 - (E) It gives an example of the limits of direct popular vote.
14. In a learning experiment a researcher ran rats through a maze. Some of the rats were blind, others deaf, others lacked a sense of smell, and others had no sensory deficiencies; yet all the rats learned the task in much the same amount of time. Of the senses other than sight, hearing, and smell, only kinesthesia had not previously been shown to be irrelevant to maze-learning. The researcher concluded on the basis of these facts that kinesthesia, the sensation of bodily movement, is sufficient for maze-learning.

The researcher's reasoning is most vulnerable to which one of the following criticisms?

- (A) The small differences in proficiency found by the researcher did not appear to fall into a systematic pattern by group.
- (B) The possibility that the interaction of kinesthesia with at least one other sense is required for maze-learning cannot be ruled out on the basis of the data above.
- (C) It can be determined from the data that rats who are deprived of one of their sources of sensory stimulation become more reliant on kinesthesia than they had been, but the data do not indicate how such a transference takes place.
- (D) It can be determined from the data that rats can learn to run mazes by depending on kinesthesia alone, but the possibility that rats respond to nonkinesthetic stimulation is not ruled out.
- (E) It can be determined from the data that maze-learning in rats depends on at least two sources of sensory stimulation, one of which is kinesthesia, but which of the remaining sources must also be employed is not determinable.

15. New legislation would require a seven-day waiting period in the sale of handguns to private individuals, in order that records of prisons could be checked and the sale of handguns to people likely to hurt other people thereby prevented. People opposed to this legislation claim that prison records are so full of errors that the proposed law would prevent as many law-abiding citizens as criminals from having access to handguns.

If the claim made by people opposed to the new legislation is true, which one of the following is a principle that, if established, would do the most to justify opposition to the new legislation on the basis of that claim?

- (A) The rights of law-abiding citizens are more worthy of protection than are the rights of criminals.
- (B) Nothing should be done to restrict potential criminals at the cost of placing restrictions on law-abiding citizens.
- (C) Legislation should not be enacted if no benefit could accrue to society as a result of that legislation.
- (D) No restrictions should be placed on the sale of merchandise unless sale of that merchandise could endanger innocent people.
- (E) Even citizens who are neither fugitives nor felons should not be permitted to own a handgun unless they have received adequate training.

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Questions 16–17

The Gulches is an area of volcanic rock that is gashed by many channels that lead downhill from the site of a prehistoric glacier to a river. The channels clearly were cut by running water. It was once accepted as fact that the cutting occurred gradually, as the glacier melted. But one geologist theorized that the channels were cut in a short time by an enormous flood. The channels do show physical evidence of having been formed quickly, but the flood theory was originally rejected because scientists knew of no natural process that could melt so much ice so quickly. Paradoxically, today the scientific community accepts the flood theory even though scientists still do not know of a process that can melt so much ice so quickly.

16. Which one of the following is supported by the information in the passage?
- (A) Only running water can cause deep channels in volcanic rock.
 - (B) The river did not exist before the channels were cut.
 - (C) Geologists cannot determine the amount of heat required to melt a glacier quickly.
 - (D) The physical effects of water on rock vary with the speed with which those effects are produced.
 - (E) Geologists are compelled to reject physical evidence when it leads to an unexplainable conclusion.
17. Which one of the following, if true, most helps to resolve the apparent paradox in the passage?
- (A) Ripples, which indicate that the channels were cut by water, have been discovered in the floors of the channels.
 - (B) The Gulches is known to be similar in certain respects to many other volcanic rock formations.
 - (C) More than one glacier was present in the area during prehistoric times.
 - (D) Volcanic rock is more easily cut by water than are other forms of rock.
 - (E) Scientists now believe that the prehistoric glacier dammed a source of water, created a huge lake in the process, and then retreated.

18. Advertisement: Attention pond owners!

Ninety-eight percent of mosquito larvae in a pond die within minutes after the pond has been treated with BTI. Yet BTI is not toxic to fish, birds, animals, plants, or beneficial insects. So by using BTI regularly to destroy their larvae, you can greatly reduce populations of pesky mosquitoes that hatch in your pond, and you can do so without diminishing the populations of fish, frogs, or beneficial insects in and around the pond.

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

- (A) The most effective way to control the numbers of mosquitoes in a given area is to destroy the mosquito larvae in that area.
- (B) Populations of mosquitoes are not dependent on a single body of water within an area as a place for their larvae to hatch and develop.
- (C) There are no insect pests besides mosquitoes that pond owners might want to eliminate from in and around their ponds.
- (D) The effectiveness of BTI in destroying mosquito larvae in a pond does not require the pond owner's strict adherence to specific application procedures.
- (E) The fish, frogs, and beneficial insects in and around a pond-owner's pond do not depend on mosquito larvae as an important source of food.

GO ON TO THE NEXT PAGE.

19. Many people change their wills on their own every few years, in response to significant changes in their personal or financial circumstances. This practice can create a problem for the executor when these people are careless and do not date their wills: the executor will then often know neither which one of several undated wills is the most recent, nor whether the will drawn up last has ever been found. Therefore, people should not only date their wills but also state in any new will which will it supersedes, for then there would not be a problem to begin with.

The reasoning in the argument is flawed because the argument

- (A) treats a partial solution to the stated problem as though it were a complete solution
- (B) fails to distinguish between prevention of a problem and successful containment of the adverse effects that the problem might cause
- (C) proposes a solution to the stated problem that does not actually solve the problem but merely makes someone else responsible for solving the problem
- (D) claims that a certain action would be a change for the better without explicitly considering what negative consequences the action might have
- (E) proposes that a certain action be based on information that would be unavailable at the time proposed for that action

20. Some flowering plant species, entirely dependent on bees for pollination, lure their pollinators with abundant nectar and pollen, which are the only source of food for bees. Often the pollinating species is so highly adapted that it can feed from—and thus pollinate—only a single species of plant. Similarly, some plant species have evolved flowers that only a single species of bee can pollinate—an arrangement that places the plant species at great risk of extinction. If careless applications of pesticides destroy the pollinating bee species, the plant species itself can no longer reproduce.

The information above, if true, most strongly supports which one of the following?

- (A) The earliest species of flowering plants appeared on Earth contemporaneously with the earliest bee species.
- (B) If the sole pollinator of a certain plant species is in no danger of extinction, the plant species it pollinates is also unlikely to become extinct.
- (C) Some bees are able to gather pollen and nectar from any species of plant.
- (D) The blossoms of most species of flowering plants attract some species of bees and do not attract others.
- (E) The total destruction of the habitat of some plant species could cause some bee species to become extinct.

21. The proper way to plan a scientific project is first to decide its goal and then to plan the best way to accomplish that goal. The United States space station project does not conform to this ideal. When the Cold War ended, the project lost its original purpose, so another purpose was quickly grafted onto the project, that of conducting limited-gravity experiments, even though such experiments can be done in an alternative way. It is, therefore, abundantly clear that the space station should not be built.

The reasoning in the argument is flawed because the argument

- (A) attacks the proponents of a claim rather than arguing against the claim itself
- (B) presupposes what it sets out to prove
- (C) faults planners for not foreseeing a certain event, when in fact that event was not foreseeable
- (D) contains statements that lead to a self-contradiction
- (E) concludes that a shortcoming is fatal, having produced evidence only of the existence of that shortcoming

22. Only an expert in some branch of psychology could understand why Patrick is behaving irrationally. But no expert is certain of being able to solve someone else's problem. Patrick wants to devise a solution to his own behavioral problem.

Which one of the following conclusions can be validly drawn from the passage?

- (A) Patrick does not understand why he is behaving in this way.
- (B) Patrick is not an expert in psychology.
- (C) Patrick is not certain of being able to devise a solution to his own behavioral problem.
- (D) Unless Charles is an expert in some branch of psychology, Charles should not offer a solution to Patrick's behavioral problem.
- (E) If Charles is certain of being able to solve Patrick's behavioral problem, then Charles does not understand why Patrick is behaving in this way.

GO ON TO THE NEXT PAGE.

23. Throughout European history famines have generally been followed by periods of rising wages, because when a labor force is diminished, workers are more valuable in accordance with the law of supply and demand. The Irish potato famine of the 1840s is an exception; it resulted in the death or emigration of half of Ireland's population, but there was no significant rise in the average wages in Ireland in the following decade.

Which one of the following, if true, would LEAST contribute to an explanation of the exception to the generalization?

- (A) Improved medical care reduced the mortality rate among able-bodied adults in the decade following the famine to below prefamine levels.
- (B) Eviction policies of the landowners in Ireland were designed to force emigration of the elderly and infirm, who could not work, and to retain a high percentage of able-bodied workers.
- (C) Advances in technology increased the efficiency of industry and agriculture, and so allowed maintenance of economic output with less demand for labor.
- (D) The birth rate increased during the decade following the famine, and this compensated for much of the loss of population that was due to the famine.
- (E) England, which had political control of Ireland, legislated artificially low wages to provide English-owned industry and agriculture in Ireland with cheap labor.

24. When the rate of inflation exceeds the rate of return on the most profitable investment available, the difference between those two rates will be the percentage by which, at a minimum, the value of any investment will decline. If in such a circumstance the value of a particular investment declines by more than that percentage, it must be true that _____.

Which one of the following logically completes the argument?

- (A) the rate of inflation has risen
- (B) the investment in question is becoming less profitable
- (C) the investment in question is less profitable than the most profitable investment available
- (D) the rate of return on the most profitable investment available has declined
- (E) there has been a change in which particular investment happens to be the most profitable available

25. Philosopher: The eighteenth-century thesis that motion is absolute asserts that the change in an object's position over time could be measured without reference to the position of any other object. A well-respected physicist, however, claims that this thesis is incoherent. Since a thesis that is incoherent cannot be accepted as a description of reality, motion cannot be absolute.

The argument uses which one of the following argumentative techniques?

- (A) attempting to persuade by the mere use of technical terminology
- (B) using experimental results to justify a change in definition
- (C) relying on the authority of an expert to support a premise
- (D) inferring from what has been observed to be the case under experimental conditions to what is in principle true
- (E) generalizing from what is true in one region of space to what must be true in all regions of space

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.

SIGNATURE

DATE _____

LSAT WRITING SAMPLE TOPIC

The program director of a television station must select the guest for the first edition of Timewaves, a new talk show. Write an argument in favor of selecting one of the guests over the other, with the following considerations in mind:

- **Timewaves** must have enough mass appeal to attract a significant viewing audience in a competitive time slot.
- **Timewaves** must continue the company's tradition of providing serious commentary on current topics.

Jeanne Josephs—a popular writer, is known for her sharp analysis of national issues. Her most recent article, published in a widely read news magazine, was entitled “Success: Who’s Got It and Why.” In the article, Josephs interviews celebrities in various fields, including sports, business, and the arts, about their views on success and how they achieved it. Josephs has not appeared on a television talk show in several years. Last year, however, she won a prestigious journalism award for “The Private Pain of Politics,” a series of articles on the toll public office has taken on the family lives of prominent politicians. At that time reports about Josephs and her work appeared in many major newspapers.

Dr. Kingston Evans—a prominent psychologist, recently led an expert panel in a study of drug use in several affluent suburban communities. The panel's controversial final report, "Drugs in Suburbia," is to be published as a book soon after the first edition of *Timewaves* is shown. The report is said to expose establishment figures, including public officials, as narcotics suppliers to the suburban market. The study received some media attention after the panel's conclusion—that drugs are more prevalent though less visible in the suburbs than in the inner city—was inadvertently revealed. At the same time, there have been accusations that the study is an inaccurate, sensationalized account of a serious issue. Dr. Evans, however, is a distinguished professor with a well-respected body of academic research to his credit.

[illegible]

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 3LSS20

Reported Score	Raw Score	
	Lowest	Highest
180	100	101
179	99	99
178	98	98
177	97	97
176	96	96
175	—*	—*
174	95	95
173	94	94
172	93	93
171	92	92
170	90	91
169	89	89
168	88	88
167	86	87
166	85	85
165	83	84
164	82	82
163	80	81
162	78	79
161	76	77
160	74	75
159	73	73
158	71	72
157	69	70
156	67	68
155	65	66
154	63	64
153	61	62
152	59	60
151	57	58
150	56	56
149	54	55
148	52	53
147	50	51
146	49	49
145	47	48
144	45	46
143	44	44
142	42	43
141	41	41
140	39	40
139	38	38
138	36	37
137	35	35
136	33	34
135	32	32
134	31	31
133	29	30
132	28	28
131	27	27
130	26	26
129	24	25
128	23	23
127	22	22
126	21	21
125	20	20
124	19	19
123	18	18
122	—*	—*
121	17	17
120	0	16

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

SECTION I

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

SECTION II

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

SECTION III

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

SECTION IV

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