

## Test 6

## SECTION 1

Time—30 minutes

38 Questions

Directions: Each sentence below has one or two blanks, each blank indicating that something has been omitted. Beneath the sentence are five lettered words or sets of words. Choose the word or set of words for each blank that best fits the meaning of the sentence as a whole.

1. Because the monkeys under study are ----- the presence of human beings, they typically ----- human observers and go about their business.
  - (A) ambivalent to. .welcome
  - (B) habituated to. .disregard
  - (C) pleased with. .snub
  - (D) inhibited by. .seek
  - (E) unaware of. . avoid
2. Given her previously expressed interest and the ambitious tone of her recent speeches, the senator's attempt to convince the public that she is not interested in running for a second term is ----- .
  - (A) laudable
  - (B) likely
  - (C) authentic
  - (D) futile
  - (E) sincere
3. Many of her followers remain ----- to her, and even those who have rejected her leadership are unconvinced of the ----- of replacing her during the current turmoil.
  - (A) opposed. .urgency
  - (B) friendly. .harm
  - (C) loyal. .wisdom
  - (D) cool. .usefulness
  - (E) sympathetic. .disadvantage
4. Unlike many recent interpretations of Beethoven's piano sonatas, the recitalist's performance was a delightfully free and introspective one; nevertheless, it was also, seemingly paradoxically, quite ----- .
  - (A) appealing
  - (B) exuberant
  - (C) idiosyncratic
  - (D) unskilled
  - (E) controlled
5. Species with relatively ----- metabolic rates, including hibernators, generally live longer than those whose metabolic rates are rapid.
  - (A) prolific
  - (B) sedentary
  - (C) sluggish
  - (D) measured
  - (E) restive
6. Belying his earlier reputation for ----- as a negotiator, Morgan had recently assumed a more ----- stance for which many of his erstwhile critics praised him.
  - (A) intransigence. .conciliatory
  - (B) impropriety. .intolerant
  - (C) inflexibility. .unreasonable
  - (D) success. .authoritative
  - (E) incompetence. .combative
7. Although Irish literature continued to flourish after the sixteenth century, a ----- tradition is ----- in the visual arts: we think about Irish culture in terms of the word, not in terms of pictorial images.
  - (A) rich. .superfluous
  - (B) lively. .found
  - (C) comparable. .absent
  - (D) forgotten. .apparent
  - (E) lost. .extant

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Directions: In each of the following questions, a related pair of words or phrases is followed by five lettered pairs of words or phrases. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair.

8. SILVER : TARNISH ::  
(A) gold : burnish  
(B) steel : forge  
(C) iron : rust  
(D) lead : cast  
(E) tin : shear
9. DISLIKE : LOATHING ::  
(A) appreciation : gratification  
(B) hunger : appetite  
(C) void : dearth  
(D) pleasure : bliss  
(E) pain : ache
10. CRAVEN : HEROIC ::  
(A) unruly : energetic  
(B) listless : attractive  
(C) volatile : constant  
(D) deft : trifling  
(E) awkward : amusing
11. FILLY : HORSE ::  
(A) antennae : butterfly  
(B) pullet : chicken  
(C) gaggle : goose  
(D) duck : drake  
(E) wasp : bee
12. PITHINESS : APHORISM ::  
(A) craft : art  
(B) detail : sketch  
(C) illusion : story  
(D) exaggeration : caricature  
(E) sophistication : farce
13. EPHEMERAL : ENDURING ::  
(A) infirm : healing  
(B) insensitive : cooperating  
(C) inanimate : living  
(D) interminable : continuing  
(E) ineffectual : proceeding
14. POSTURER : UNAFFECTED ::  
(A) brat : insolent  
(B) hypocrite : perceptive  
(C) grouch : respected  
(D) bigot : tolerant  
(E) rogue : empathetic
15. FACETIOUS : SPEECH ::  
(A) precocious : learning  
(B) unbecoming : color  
(C) exemplary : conduct  
(D) craven : timidity  
(E) antic : behavior
16. VAGARY : PREDICT ::  
(A) quotation : misdirect  
(B) investigation : confirm  
(C) stamina : deplete  
(D) turbulence : upset  
(E) impossibility : execute

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**Directions:** Each passage in this group is followed by questions based on its content. After reading a passage, choose the best answer to each question. Answer all questions following a passage on the basis of what is stated or implied in that passage.

This is not to deny that the Black gospel music of the early twentieth century differed in important ways from the slave spirituals. Whereas spirituals  
*Line* were created and disseminated in folk fashion, gospel  
 (5) music was composed, published, copyrighted, and sold by professionals. Nevertheless, improvisation remained central to gospel music. One has only to listen to the recorded repertoire or gospel songs to realize that Black gospel singers rarely sang a song  
 (10) precisely the same way twice and never according to its exact musical notation. They performed what jazz musicians call "head arrangements" proceeding from their own feelings and from the way "the spirit" moved them at the time. This improvisatory element  
 (15) was reflected in the manner in which gospel music was published. Black gospel composers scored the music intended for White singing groups fully, but the music produced for Black singers including only a vocal line and piano accompaniment.

17. Which of the following best describes "head arrangement" as the term is used in line 12?
- (A) A published version of a gospel song produced for use by Black singers
  - (B) A gospel song based on a slave spiritual
  - (C) A musical score shared by a gospel singer and a jazz musician
  - (D) An informally written composition intended for use by a gospel singer
  - (E) An improvised performance inspired by the singer's emotions
18. The author mentions "folk fashion" (line 4) most likely in order
- (A) counter an assertion about the role of improvisation in music created by Black people
  - (B) compare early gospel music with gospel music written later in the twentieth century
  - (C) make a distinction between gospel music and slave spirituals
  - (D) introduce a discussion about the dissemination of slave spirituals
  - (E) describe a similarity between gospel music and slave spirituals
19. The passage suggests which of the following about Black gospel music and slave spirituals?
- (A) Both became widely known in the early twentieth century.
  - (B) Both had an important improvisatory element.
  - (C) Both were frequently performed by jazz musicians.
  - (D) Both were published with only a vocal line and piano accompaniment.
  - (E) Both were disseminated chiefly by Black singing groups.
20. Of the following sentences, which is most likely to have immediately preceded the passage?
- (A) Few composers of gospel music drew on traditions such as the spiritual in creating their songs.
  - (B) Spirituals and Black gospel music were derived from the same musical tradition.
  - (C) The creation and singing of spirituals practiced by Black Americans before the Civil War, continued after the war.
  - (D) Spirituals and gospel music can be clearly distinguished from one another.
  - (E) Improvisation was one of the primary characteristics of the gospel music created by Black musicians.

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About a century ago, the Swedish physical scientist Arrhenius proposed a law of classical chemistry that relates chemical reaction rate to temperature. According  
 Line to the Arrhenius equation, chemical reactions are  
 (5) increasingly unlikely to occur as temperatures approach absolute zero, and at absolute zero (zero degrees Kelvin, or minus 273 degrees Celsius) reactions stop. However, recent experimental evidence reveals that although the Arrhenius equation is generally accurate in describing  
 (10) the kind of chemical reaction that occurs at relatively high temperatures, at temperatures closer to zero a quantum-mechanical effect known as tunneling comes into play; this effect accounts for chemical reactions that are forbidden by the principles of classical chemistry. Specifically, entire molecules can "tunnel" through the  
 (15) barriers of repulsive forces from other molecules and chemically react even though these molecules do not have sufficient energy, according to classical chemistry to overcome the repulsive barrier.

(20) The rate of any chemical reaction, regardless of the temperature at which it takes place, usually depends on a very important characteristic known as its activation energy. Any molecule can be imagined to reside at the bottom of a so-called potential well of energy. A chemical reaction corresponds to the transition of a  
 (25) molecule from the bottom of one potential well to the bottom of another. In classical chemistry such a transition can be accomplished only by going over the potential barrier between the wells, the height of which remains constant and is called the activation energy of  
 (30) the reaction. In tunneling, the reacting molecules tunnel from the bottom of one to the bottom of another well without having to rise over the barrier between the two wells. Recently researchers have developed the concept  
 (35) of tunneling temperature: the temperature below which tunneling transitions greatly outnumber Arrhenius transitions, and classical mechanics gives way to its quantum counterpart.

This tunneling phenomenon at very low temperatures  
 (40) suggested my hypothesis about a cold prehistory of life: the connotation of rather complex organic molecules in the deep cold of outer space, where temperatures usually reach only a few degrees Kelvin. Cosmic rays (high energy protons and other particles) might trigger the  
 (45) synthesis of simple molecules, such as interstellar formaldehyde, in dark clouds of interstellar dust. Afterward complex organic molecules would be formed, slowly but surely, by means of tunneling. After I offered my hypothesis, Hoyle and Wickramasinghe argued that  
 (50) molecules of interstellar formaldehyde have indeed evolved into stable polysaccharides such as cellulose and starch. Their conclusions, although strongly disputed, have generated excitement among investigators such as myself who are proposing that the galactic clouds are the  
 (55) places where the prebiological evolution of compounds necessary to life occurred.

21. The author of the passage is primarily concerned with

- (A) describing how the principles of classical chemistry were developed
- (B) initiating a debate about the kinds of chemical reactions required for the development of life
- (C) explaining how current research in chemistry may be related to broader biological concerns
- (D) reconciling opposing theories about chemical reactions
- (E) clarifying inherent ambiguities in the laws of classical chemistry

22. According to the passage, classical chemical reactions and tunneling reactions are alike in which of the following ways?

- (A) In both types of reactions, reacting molecules have to rise over the barrier between the two wells.
- (B) In both types of reactions, a transition is made from the bottom of one potential well to the bottom of another.
- (C) In neither type of reactions does the height often barrier between the wells remain constant.
- (D) In neither types of reaction does the rate of a chemical reaction depend on its activation energy.
- (E) In both types of reactions, reacting molecules are able to go through the barrier between the two wells.

23. According to Arrhenius equation as discussed in the passage, which of the following statements about chemical reactions true?

- (A) Chemical reactions are less likely to occur at temperatures close to absolute zero.
- (B) In some cases the rate of a chemical reaction is related to temperature and in other cases it is not.
- (C) Chemical reactions frequently occur at a few degrees above absolute zero, but they are very unpredictable.
- (D) The rate of a chemical reaction depends on many other factors besides temperature.
- (E) Chemical reactions rate and temperature are not related.

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24. The author's attitude toward the theory of a cold prehistory of life can best be described as
- (A) neutral
  - (B) skeptical
  - (C) mildly positive
  - (D) very supportive
  - (E) pointedly critical
25. The author's hypothesis concerning the cold prehistory of life would be most weakened if which of the following were true?
- (A) Cosmic rays are unlikely to trigger the formation of simple molecules.
  - (B) Tunneling occurs only in a narrow band of temperatures around zero degrees Kelvin.
  - (C) The synthesis of interstellar formaldehyde can be activated by means other than cosmic rays.
  - (D) Simple molecules can be synthesized by means of tunneling.
  - (E) Classical chemical reactions do not occur at temperatures close to absolute zero.
26. Which of the following best describes the hypothesis of Hoyle and Wickramasinghe as it is presented in the passage?
- (A) Cosmic rays can directly synthesize complex organic molecules.
  - (B) The galactic clouds are the places where prebiological evolution of compounds necessary to life occurred.
  - (C) Interstellar formaldehyde can be synthesized by tunneling.
  - (D) Molecules of interstellar formaldehyde can evolve into complex organic molecules.
  - (E) Complex organic molecules can be synthesized from stable polysaccharides such as cellulose and starch.
27. Which of the following best describes the organization of the first two paragraphs of the passage?
- (A) The author cites a basic principle of classical chemistry and then describes the research from which that principle was developed.
  - (B) The author cites an apparent contradiction to the principles of classical chemistry and then explains the process of a chemical reaction to show there is in fact no contradiction.
  - (C) The author describes the role of heat in chemical reactions and then offers a detailed explanation of its function.
  - (D) The author presents a law of classical chemistry in order to introduce a kind of chemical reaction that differs from it and then explains the essential difference between the two.
  - (E) The author presents the fundamental rules of classical chemistry in order to introduce an explanation of a specific chemical reaction.
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Directions: Each question below consists of a word printed in capital letters, followed by five lettered words or phrases. Choose the lettered word or phrase that is most nearly opposite in meaning to the word in capital letters.

Since some of the questions require you to distinguish fine shades of meaning, be sure to consider all the choices before deciding which one is best.

28. PREFACE :  
(A) improvisation  
(B) burlesque  
(C) epilogue  
(D) tangent  
(E) backdrop
29. DEBILITATE :  
(A) implicate  
(B) invigorate  
(C) obfuscate  
(D) realign  
(E) encumber
30. TASTY :  
(A) uninteresting  
(B) unfamiliar  
(C) unexpected  
(D) understated  
(E) undervalued
31. ABNEGATE :  
(A) refresh  
(B) reaffirm  
(C) relieve  
(D) react  
(E) reform
32. SERRIED :  
(A) partially formed  
(B) widely separated  
(C) narrowly missed  
(D) extremely grateful  
(E) reasonably clean
33. BOMBASTIC :  
(A) unflappable  
(B) uninspired  
(C) unpretentious  
(D) inscrutable  
(E) incisive
34. BANAL :  
(A) comfortable  
(B) novel  
(C) equal  
(D) fatal  
(E) competent
35. LANGUISH :  
(A) agitate  
(B) wander  
(C) relieve  
(D) discomfit  
(E) thrive
36. ENNUY :  
(A) intimidation  
(B) sleaze  
(C) faint recollection  
(D) keen interest  
(E) deep reservation
37. DAUNTLESS :  
(A) sophomoric  
(B) trifling  
(C) pusillanimous  
(D) specious  
(E) parsimonious
38. TEMERITY :  
(A) credibility  
(B) authority  
(C) celebrity  
(D) acrimony  
(E) circumspection

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