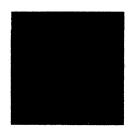
## Form B02

(June 2019)

EIR





2018 | 2019

In response to your request for Test Information Release materials, this booklet contains the test questions, scoring keys, and conversion tables used in determining your ACT scores. Enclosed with this booklet is a report that lists each of your answers, shows whether your answer was correct, and, if your answer was not correct, gives the correct answer.

If you wish to order a photocopy of your answer document—including, if you took the writing test, a copy of your written essay—please use the order form on the inside back cover of this booklet.



#### **ENGLISH TEST**

45 Minutes - 75 Questions

DIRECTIONS: In the five passages that follow, certain words and phrases are underlined and numbered. In the right-hand column, you will find alternatives for the underlined part. In most cases, you are to choose the one that best expresses the idea, makes the statement appropriate for standard written English, or is worded most consistently with the style and tone of the passage as a whole. If you think the original version is best, choose "NO CHANGE." In some cases, you will find in the right-hand column a question about the underlined part. You are to choose the best answer to the question.

You will also find questions about a section of the passage, or about the passage as a whole. These questions do not refer to an underlined portion of the passage, but rather are identified by a number or numbers in a box.

For each question, choose the alternative you consider best and fill in the corresponding oval on your answer document. Read each passage through once before you begin to answer the questions that accompany it. For many of the questions, you must read several sentences beyond the question to determine the answer. Be sure that you have read far enough ahead each time you choose an alternative.

#### PASSAGE I

#### Eddie Sweat: A Groom's Groom

In 1973 the three-year-old colt Secretariat won each event of the Triple Crown of Thoroughbred Racing (the Kentucky Derby, the Preakness Stakes, and the Belmont Stakes), a feat accomplished only eleven times in the twentieth century. While many factors contributed to Secretariat's success—selective breeding, top-notch trainers, and a skillful jockey, to name a few—the expertise and diligent care of the horse's groom, Eddie Sweat, who deserves

some of the credit. 2

- 1. A. NO CHANGE
  - B. Sweat; who deserves
  - C. Sweat, deserve
  - D. Sweat; deserve
- 2. At this point, the writer is considering adding the following true statement:

Another key figure was Ron Turcotte, the skillful jockey who rode Secretariat to victory in the Triple Crown races.

Should the writer make this addition here?

- F. Yes, because it concludes the paragraph with a logical transition to the rest of the essay.
- G. Yes, because it identifies the "skillful jockey" mentioned in the preceding sentence.
- H. No, because it detracts from the paragraph's focus on horses that have won the Triple Crown.
- J. No, because it detracts from the paragraph's purpose of introducing the essay's main topic.

Although often overlooked and underappreciated, a groom plays a significant role in the life of a racehorse.

A groom's basic tasks include washing and brushing the horse, trimming its mane and tail, and they clean its

hooves. [A] A groom also cleans stalls and takes care of

riding equipment. [B] Those whom witnessed Sweat with Secretariat attest that his care surpassed the usual duties of a groom. He'd talk to the horse constantly, he'd soothe him in Gullah, a Creole-English language commonly spoken in the South Carolina African American community Sweat grew up in. [C] After cooking Secretariat a mash of oats and corn, he'd watch him eat, taking note of any changes in appetite noticeable to him while the horse was eating.

He'd also examine Secretariat's teeth and take his

temperature daily, <u>attention to</u> any signs of illness or distress. [D] Sweat would spend extra time massaging the horse's legs, applying healing poultices made from herbs he had gathered. <u>However</u>, on nights before big races, he'd

even sleep next to the horse's stall. 10

- 3. A. NO CHANGE
  - B. cleaning
  - C. to clean
  - D. clean
- 4. Which of the following alternatives to the underlined portion would NOT be acceptable?
  - **F.** Additionally, a groom
  - G. A groom, in addition,
  - **H.** In sum, a groom
  - J. Also, a groom
- 5. A. NO CHANGE
  - B. who
  - C. of whom
  - D. of which
- 6. F. NO CHANGE
  - G. constantly. Soothing
  - H. constantly; soothing
  - J. constantly, soothing
- 7. A. NO CHANGE
  - B. that became apparent while watching him eat.
  - C. that were noticeable to him.
  - **D.** DELETE the underlined portion and end the sentence with a period.
- 8. F. NO CHANGE
  - G. attentively to
  - H. attentive to
  - J. attentively
- 9. A. NO CHANGE
  - B. On
  - C. Therefore, on
  - D. For example, on
- 10. The writer wants to divide this paragraph into two in order to separate the general information about a groom's duties from the specific details about Eddie Sweat's work as a groom. The best place to begin the new paragraph would be at:
  - F. Point A.
  - G. Point B.
  - H. Point C.
  - J. Point D.

Sweat's constant, companionship, and expert care kept Secretariat healthy and calm in a stressful racing environment 12. When a bronze statue honoring Secretariat was unveiled at the Kentucky Horse Park

in 2004, it featured not only the Triple Crown champion

and his jockey but his groom, Eddie Sweat, as well.

The statue, depicting Sweat with his left hand gripping the lead rope, his right rests on the horse's side,

is a lasting tribute to Sweat's exceptional care.

- 11. A. NO CHANGE
  - **B.** constant companionship,
  - C. constant, companionship
  - D. constant companionship
- 12. At this point, the writer is considering adding the following accurate information:

that involved much contact with the public, grueling training sessions, and frequent travel

Should the writer make this addition here?

- F. Yes, because it names some of the stresses Secretariat endured.
- G. Yes, because it provides examples of Sweat's diligent care for Secretariat.
- H. No, because it shows that Sweat's care had little impact on Secretariat's performances.
- J. No, because it demonstrates that Secretariat was an unusually difficult racehorse.
- 13. A. NO CHANGE
  - B. but, his groom, Eddie Sweat
  - C. but, his groom Eddie Sweat,
  - D. but his groom, Eddie Sweat
- 14. F. NO CHANGE
  - G. would rest
  - H. resting
  - J. rested
- 15. Given that all the choices are accurate, which one most effectively concludes the sentence and the essay by reinforcing the essay's main point?
  - A. NO CHANGE
  - **B.** remains there today, a celebration of the spirit of one of the greatest racehorses in history.
  - C. weighs 1,500 pounds and is located in the section of the park called Secretariat Plaza.
  - D. is a beautiful reminder of the special bond that can form between horse and jockey.

#### PASSAGE II

#### Himalayan Garnets

[1]

When geologist, Elizabeth Catlos, began gathering garnets in the Himalayan Mountains in the late 1990s, most scientists had a fairly rigid understanding of the mountain range's history. [A]

It was commonly held that the Himalayas had formed approximately 55 million years ago when India drifted north on a layer of semimolten rock, collided with Asia.

- 16. F. NO CHANGE
  - G. geologist, Elizabeth Catlos
  - H. geologist Elizabeth Catlos,
  - J. geologist Elizabeth Catlos
- 17. A. NO CHANGE
  - B. India, has been drifting
  - C. India, drifting
  - D. India had drifted

The collision forced one tectonic plate into the other, crumpling the land where the plates met. The resulting mountain range, one of the longest in the world, stretches 1,500 miles across six countries and features many impressive mountains. Although

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the Himalayan range was thought to have remained relatively unchanged over these tens of millions of years, Catlos was surprised to discover that some of the garnets

she had collected formed less than that many years ago. [B]

[2]

Garnets are gemstones with a crystal structure.

They are formed many miles beneath the surface of the earth, where high pressures and temperatures allows

them to crystallize. These gemstones  $\frac{\text{are really good in}}{22}$ 

geologic dating. [C] Resistant to chemical change after they crystallize, scientists can analyze the gemstones to determine the temperature and pressure of the earth when the garnets formed. Such analyses are possible because garnets also contain monazite, a rare mineral that is easily dated. This allows scientists

to identify the garnets' approximate  $\frac{\text{age. And}}{25}$  the earth's conditions when the gemstones formed.

- 18. F. NO CHANGE
  - G. compelled
  - H. imposed
  - J. coerced
- 19. The writer is considering revising the underlined portion to the following:

boasts nine of the world's ten highest peaks.

Should the writer make this revision?

- A. Yes, because it explains why the Himalayas stretch across so many countries.
- **B.** Yes, because it provides a specific detail that illustrates the magnitude of the mountain range.
- C. No, because it does not indicate where the tenth highest peak is located.
- **D.** No, because it repeats information provided earlier in the paragraph.
- 20. Which choice draws the most specific contrast between the presumed age of the Himalayas and the age of the garnets Catlos collected?
  - F. NO CHANGE
  - G. only a few million
  - H. not very many
  - J. DELETE the underlined portion.
- 21. A. NO CHANGE
  - B. has allowed
  - C. is allowing
  - D. allow
- 22. F. NO CHANGE
  - G. work so well when it comes to
  - H. are particularly useful for
  - J. do a pretty great job with
- 23. A. NO CHANGE
  - B. Because garnets are resistant to
  - C. Since they resist
  - D. Resisting
- 24. F. NO CHANGE
  - G. a rare, easily dated mineral that makes these analyses feasible.
  - H. a rare mineral that is easily dated without difficulty.
  - J. an easily dated, rare mineral found in garnets.
- 25. A. NO CHANGE
  - B. age; and
  - C. age, and
  - D. age and

The dating of Catlos's garnets, as well as analysis of the pressures and temperatures encoded in their structure, indicates that they were not formed by a single collision, as was previously thought. Rather, it seems that India has continued to push northward into Asia. According to new

estimates, the mountain range as we know it today most

likely underwent major changes as recently as five million

years ago. Incredibly, as one of Catlos's colleagues notes, "Geologically, the present Himalayan range front was formed just yesterday." [D]

- 26. F. NO CHANGE
  - G. the Himalayas
  - H. mountains
  - J. some
- 27. A. NO CHANGE
  - B. as it is known to we
  - C. as we know them
  - D. that us know
- 28. F. NO CHANGE
  - G. have noted,
  - H. are noting,
  - J. note,

Questions 29 and 30 ask about the preceding passage as a whole.

29. The writer is considering adding the following sentence to the essay:

Specifically, garnets are key minerals scientists use to determine the age and origin of igneous and metamorphic rock.

If the writer were to add this sentence, it would most logically be placed at:

- A. Point A in Paragraph 1.
- B. Point B in Paragraph 1.
- C. Point C in Paragraph 2.
- D. Point D in Paragraph 3.

- 30. Suppose the writer's primary purpose had been to offer a brief biography of a notable scientist. Would this essay accomplish that purpose?
  - F. Yes, because it outlines one scientist's contribution to the study of precious gemstones.
  - G. Yes, because it states that Catlos was the one to discover the true age of the Himalayas.
  - H. No, because it focuses on how one geologic finding changed a long-held scientific belief.
  - J. No, because it includes information about Catlos's colleagues as well.

#### **PASSAGE III**

#### Ports of Recall: Hudson River Ferries

The first steam-powered ferry on the Hudson River, the Juliana, left Hoboken, New Jersey, for New York City on October 11, 1811, in the nineteenth century. Ferries, mostly of the small sailboat kind called sloops, had been traveling on the Hudson for centuries, carrying cargo and passengers. What made steamboat travel so revolutionary was speed. A trip from New York City to Albany, for example, took seven days in a sloop, a steamboat

shortened that trip to one day. Less vulnerable to the weather, steam-powered ferries were reliable, and thus their popularity grew.

Onboard these ferries, commuters crossed from homes in Hoboken to jobs in Manhattan. Society's upper echelon meandered on scenic upriver excursions. "Passengers" sometimes included horses, goats, and chickens. Many of these vessels offered rudimentary comforts at best. Others, from that time period, boasted

an elegance that unsurpassed the river. For a while, older

styles of ferries, such as those powered by horses brought onboard to turn a paddle wheel, continued to operate. But the steam-powered ferries, hundreds of them, ruled the Hudson River for most of the nineteenth, and part of the twentieth centuries.

#### 31. A. NO CHANGE

- **B.** marking the first such trip by a steam-propelled ferry.
- C. on the Hudson River.
- D. DELETE the underlined portion and end the sentence with a period.

#### 32. F. NO CHANGE

- G. days, in a sloop,
- H. days in a sloop;
- J. days: in a sloop
- 33. Given that all the choices are accurate, which one best completes the contrast set up in the first part of the sentence?
  - A. NO CHANGE
  - B. on the Hudson River.
  - C. in terms of time.
  - D. measurably.

#### 34. F. NO CHANGE

- G. Hoboken, to jobs
- H. Hoboken to jobs,
- J. Hoboken, to jobs,
- 35. Which choice most vividly reinforces the information in the rest of the sentence?
  - A. NO CHANGE
  - B. according to authoritative sources,
  - C. dubbed "floating palaces,"
  - D. incidentally,

#### 36. F. NO CHANGE

- G. unsurpassed with
- H. unsurpassed on
- J. unsurpassed in

#### 37. A. NO CHANGE

- B. forced
- C. trotted
- D. engaged

#### 38. F. NO CHANGE

- G. nineteenth and,
- H. nineteenth and
- J. nineteenth, but

Bear Mountain Bridge was built by the Harriman

Bear Mountain Bridge was built by the Harriman

family. Until bridges spanned the Hudson River—more

than a mile wide in places, car owners relied on ferries

to transport their vehicles from one shore to the other.

Bearing names like Elmira, Lackawanna, Tuxedo, and

Skillypot, ferry travel helped transform the region into
one of the biggest economic and cultural centers of the

world. At its' peak in 1927, ferry service between

New Jersey to New York reached twenty-seven million passengers annually. In a few years that number plummeted. The Hudson River Vehicular Tunnel, later renamed the Holland Tunnel, opened in 1927, followed by the George Washington Bridge in 1931. By the time the first cars traveled 1.5 miles through the Lincoln Tunnel in 1937, the golden age of ferries on the Hudson had ended.

- 39. Given that all the choices are true, which one best introduces the topic of the paragraph?
  - A. NO CHANGE
  - B. When automobiles arrived, they did not immediately replace ferries.
  - C. Suspension bridges are now considered part of what makes trips up the Hudson River so scenic.
  - D. Some ferries in operation today have the capacity to take automobiles onboard.
- 40. F. NO CHANGE
  - G. places—
  - H. places;
  - J. places
- 41. A. NO CHANGE
  - B. ferry transportation in general
  - C. travel by ferry
  - D. ferries
- 42. F. NO CHANGE
  - G. their
  - H. its
  - J. it's
- 43. A. NO CHANGE
  - **B.** on the way to
  - C. plus
  - D. and
- 44. F. NO CHANGE
  - G. following in the footsteps of
  - H. and it followed
  - J. following

Question 45 asks about the preceding passage as a whole.

- **45.** Suppose the writer's primary purpose had been to provide a detailed comparison of sloops and steamboat ferries that operated on the Hudson River in the nineteenth century. Would this essay accomplish that purpose?
  - A. Yes, because the essay explains that of the two types of transportation, steamboat ferries were much faster.
  - **B.** Yes, because the essay compares the age, speed, and style of both types of vessels on the Hudson.
  - C. No, because the essay focuses on the speed with which the auto industry shut down ferryboat travel on the Hudson River.
  - D. No, because although the essay offers some basic information about sloops, it focuses on the rise and fall of steamboat ferries on the Hudson.

#### PASSAGE IV

#### Name That Tune

[1] Crowdsourcing, "recruiting" volunteers from the general public to help perform a task, is often an efficient means of rummaging around massive amounts of data.

[2] But for the Whale Song Project, which focuses on deciphering the songs of killer and pilot whales, crowdsourcing also alleviates the problem of subjective interpretation. [3] It has been instrumental in classifying galaxies and decoding ancient papyri. [47]

The key to learning more about the meaning of whale songs, scientists believe, is to study the songs in context.

He are to establish what type of situation elicits a particular song. Two pieces of sophisticated recording equipment is essential in this endeavor: D-tags and

hydrophone arrays. For example, D-tags are noninvasive devices temporarily attached to the whales with suction cups. Hydrophone arrays are webs of underwater recording devices [51]. Using this equipment,

scientists have amassed roughly 15,000 songs,
slong with other background noises and data
about the whales' locations and movements.

- 46. F. NO CHANGE
  - G. poking about
  - H. handling
  - J. toting
- 47. Which sequence of sentences makes this paragraph most logical?
  - A. NO CHANGE
  - **B.** 1, 3, 2
  - **C.** 2, 3, 1
  - **D.** 3, 2, 1
- 48. F. NO CHANGE
  - G. songs, scientists believe is,
  - H. songs scientists believe, is
  - J. songs, scientists believe is
- 49. A. NO CHANGE
  - B. have been
  - C. has been
  - D. was
- 50. F. NO CHANGE
  - G. On the one hand,
  - H. In fact,
  - J. DELETE the underlined portion.
- 51. At this point, the writer is considering adding the following accurate information:

trailed behind a boat or attached to a buoy

Should the writer make this addition here?

- A. Yes, because it supports the writer's assertion that hydrophone arrays are sophisticated recording devices.
- B. Yes, because it helps explain what hydrophone arrays are and how they differ from D-tags.
- C. No, because it adds a level of detail inconsistent with the rest of the essay.
- **D.** No, because it suggests that hydrophone arrays are less effective than D-tags.
- 52. F. NO CHANGE
  - G. the collection for the project has roughly 15,000 songs.
  - H. the roughly 15,000 songs collected are ready for study,
  - J. roughly 15,000 songs await scientists' analysis,

Now scientists are turning to crowdsourcing to meet the next challenge: tagging similar-sounding

songs as matches. These matches are vital for the project,
they allow scientists to identify and compare multiple
situations in which the same song was recorded. The
process, which effectively narrows the range of

potential factors that possibly could have evoked a particular song, thereby offering better clues to the song's meaning.

The variability  $\frac{\text{in}}{57}$  human capacity to distinguish high and low tones makes the matching process highly subjective. Crowdsourcing, however, allows scientists to  $\frac{\text{nab}}{58}$  significant trends in matchmaking rather than to work

can be sorted more reliably. Where so much depends on identifying similarities in sounds that crowdsourcing could provide a crucial step toward understanding what the whales are saying.

from a few listeners' interpretations. Nevertheless, songs

- 53. A. NO CHANGE
  - B. challenge; that of
  - C. challenge;
  - D. challenge
- 54. F. NO CHANGE
  - G. project; for
  - H. project;
  - J. project
- 55. A. NO CHANGE
  - B. process of effectively narrowing
    - C. process, effectively narrowing
    - D. process effectively narrows
- 56. F. NO CHANGE
  - G. factors that, at least potentially, could have
  - H. possible potential factors that
  - J. potential factors that
- 57. A. NO CHANGE
  - B. through
  - C. with
  - D. on
- 58. F. NO CHANGE
  - G. come to find out
  - H. spot
  - J. stake out
- 59. A. NO CHANGE
  - B. As a result,
  - C. Similarly,
  - D. Still,
- 60. F. NO CHANGE
  - G. sounds, with
  - H. sounds as
  - J. sounds,

## A Natural Comedian

PASSAGE V

- [1] When silent comedy films, which debuted

  in the early 1900s, the public was delighted by
  slapstick's over-the-top brawls, falls, and pantomimes.

  [2] Exaggerated gestures and expressions, long used
- [2] Exaggerated gestures and expressions, long used by actors to hammer home the hilarity of their acts in vaudeville theaters, began to fall flat with filmgoers.
- [3] By 1910, however, audiences' tastes were more refined.
- [4] Craving comedies, but they lamented the overacting,

audiences began to call for funnier—and more natural—

silent actors. 65

An illustrator's model, Mabel Normand, proved perfect for the part. Skilled at calling up realistic emotions for magazine art and ads, Normand was invited to take part in a film as an extra. After impressing them with her natural wit and nuanced expressions, directors at the Biograph film company offered her a costar's contract. Within a year, she was accepting starring roles with major studios.

- 61. A. NO CHANGE
  - B. films that debuted
  - C. films debuted
  - D. films, debuting
- 62. F. NO CHANGE
  - G. audience's tastes were
  - H. audience's taste was
  - J. audiences' taste was
- 63. A. NO CHANGE
  - B. Though moviegoers craved comedies, they lamented
  - C. Despite craving comedies, moviegoers lamented
  - D. Craving comedies but lamenting
- 64. F. NO CHANGE
  - G. funnier (and more natural),
  - H. funnier—and more natural
  - J. funnier, and more natural
- 65. Which sequence of sentences makes this paragraph most logical?
  - A. NO CHANGE
  - **B.** 1, 3, 2, 4
  - C. 1, 3, 4, 2
  - **D.** 1, 4, 2, 3
- 66. F. NO CHANGE
  - G. Impressed
  - H. An impressive actor
  - J. Impressing them
- 67. If the writer were to delete the preceding sentence, this paragraph would primarily lose:
  - A. a suggestion that Normand's success turned the Biograph film company into a major film studio.
  - B. an explanation of how Normand switched from dramatic acting to comedic acting.
  - C. a detail establishing the idea that Normand was popular with audiences.
  - D. an indication of how quickly Normand's acting career flourished.

Normand livened up their usual comedy fare, radiating charisma in case she was waltzing at a garden party or tumbling into a mud puddle. Audiences, starstruck, wrote in to newspapers asking who this new talent was. Actors, too, were inspired by Normand's lively but subtle comedy style. One of her costars, the young Charlie Chaplin, later attributed part of his immense success to Normand's mentoring.

Normand set an example not only for her costars, but  $\frac{\text{also for}}{69}$  women entering film. Early comedies cast women

in only a handful of stereotypical parts, such as, the dutiful daughter or the damsel in distress. As Normand's fame increased and she began to write and direct her own films, she created new heroines to better suit her daring  $\frac{71}{71}$ 

spirit. [72] What's more, they have the last laugh. After getting hit with a pie in the film *The Ragtime Band*,

however, Normand's character, outraged, wipes the pie off her face and flings it right back. Her initiative sets

off a massive food fight, throughout which nobody laughs harder than Normand.

- 68. F. NO CHANGE
  - G. given that
  - H. whether
  - J. since

- 69. A. NO CHANGE
  - B. was also inspirational for
  - C. also inspired
  - D. DELETE the underlined portion.
- 70. F. NO CHANGE
  - G. parts; such as,
  - H. parts; such as
  - J. parts, such as
- 71. A. NO CHANGE
  - B. adorn
  - C. equip
  - D. join
- 72. Given that all the following statements are true, which one provides the most effective transition between the preceding sentence and the rest of the paragraph?
  - F. Normand's first self-produced film, *Mickey*, set in her native New York City, features characters caught in a love triangle.
  - G. Clever and fearless, her characters hog-tie suitors, tame wild animals, fly rescue missions, and officiate marriages.
  - H. Before Normand, comic heroines drew laughs mainly by wearing silly makeup and costumes.
  - J. Many of these heroines were introduced in her later films costarring Roscoe Arbuckle.
- 73. A. NO CHANGE
  - B. for example,
  - C. similarly,
  - D. besides,
- 74. F. NO CHANGE
  - G. fight, which, throughout it,
  - H. fight, which throughout,
  - J. fight that throughout it,

Question 75 asks about the preceding passage as a whole.

- 75. Suppose the writer's main purpose had been to explore the significance of an early film actor's career. Would this essay accomplish that purpose?
  - A. Yes, because it focuses on how the decision to pursue an acting career changed Normand's personality and ambitions.
  - sonality and ambitions.

    B. Yes, because it discusses how Normand's unique charm and impressive acting talents affected comedy film.
  - C. No, because it describes how Normand left slapstick acting to write and direct more sophisticated comedy films.
  - D. No, because it indicates that, after a brief period of popularity, comedy films like Normand's failed to satisfy audiences.

END OF TEST 1
STOP! DO NOT TURN THE PAGE UNTIL TOLD TO DO SO.

#### **READING TEST**

35 Minutes - 40 Questions

**DIRECTIONS:** There are several passages in this test. Each passage is accompanied by several questions. After reading a passage, choose the best answer to each question and fill in the corresponding oval on your answer document. You may refer to the passages as often as necessary.

#### Passage I

LITERARY NARRATIVE: This passage is adapted from the novel *Bitter Grounds* by Sandra Benítez (©1997 by Sandra Benítez).

Alvaro Tobar gripped the wheel of his convertible and leaned into the approaching curve. He loved the sense of power he experienced when he was in the driver's seat. He'd owned the car since before the war, 5 and maybe now that the war had ended, he would buy a newer model. This convertible he would not sell, however. He patted the wheel as if reassuring the vehicle of his loyalty.

It was a late afternoon in early November. The air 10 was heavy with coming rain, surely one of the last downpours before the dry season. Alvaro would wait for the first drops to fall before he stopped to raise the car's top. He was only a few kilometers from San Salvador and, once inside the city limits, only minutes 15 from home.

Alvaro's thoughts turned to his cotton harvest. For the past week, he'd been on the eastern coast, at his plantation outside Usulután. On this trip, he had helped ready the hacienda for the harvest, which would start at 20 month's end. Much was riding on his cotton. He always referred to it as "mi algodón." My cotton, a venture that he, and not his mother, controlled. He pictured his mother's strong, handsome face. Eugenia Herrera de Tobar. At seventy-three, doña Eugenia was still the 25 undisputed ruler of the Tobar family. As the doyenne, she controlled her business and private affairs with as much vigor as she had since her husband's death. Because she had Alvaro and his four older sisters to raise, she took over the reins of her husband's cattle-30 ranching operation and his vast property holdings and never relinquished them. Under her control, her husband's enterprises prospered. Oh, there were moments when she cried out against the fate that had sent her down a path strewn with so much responsibility, "It's a 35 heavy burden life has handed me," she liked to say. "A burden I long to have lifted from my shoulders." Even as a youngster, however, when Alvaro heard his mother's lamentations, he had glimpsed into her heart as if her chest were made of glass. In her heart, he had 40 seen the pleasure the burden gave her.

It was power that obsessed her. And could he blame her? He had had a whiff of the heady scent of

power himself. He smelled it in his cotton. He'd been in the business for four years. The first three years were 45 hopeful ones. There was a world war, and unlike coffee, cotton prices rose steadily, thanks to the growth of the local textile industry.

From the start, his mother had not encouraged him to strike out on his own. "Only fools go into cotton 50 when there's cattle to be raised or coffee to be grown," she said, compelling him to work all the harder to prove her wrong. He had spent months scouting for the right land among the family's properties on the flat coastal plain. When he found it, he had lovingly sown the best seed himself. And he had kept a vigil on the growing plants. Lying in a hut next to the field, he was present at the moment the buds broke into flower.

Once Alvaro reached Avenida Cuscatlán, he accelerated, weaving in and out of traffic. Cotton. A man 60 took a risk growing it, for cotton might never make the money coffee would, but Alvaro did not allow this thought to perturb him. He had various means of making a living: There was real estate to be bought and sold, a seat on the bank board, the shrimping business 65 on the coast. He had disbanded his law practice years ago, although, at times, he took a case or two on a consulting basis. But it was in the cotton business that he'd placed his heart and money. Last year, so sure was he of a better-than-ever yield, that he'd invested his wife's 70 money in it as well. It was the inheritance from her grandfather, bequeathed to her twelve years before. Magda had entrusted it to Alvaro, and he had carefully managed the money, seeing to its growth. When the time was right, she would use her inheritance for her 75 own business scheme: a gift shop named Tesoros.

The disaster of last year's harvest flooded his mind. He sank back against the seat, remembering his cotton, the bolls swollen and soon to burst into a cloud of white, infested malevolently with weevils.

But this year would be different. He had taken measures. He had spent the better part of the week stockpiling insecticides that would insure this crop against failure. He had not told Magda any of this, of course. Why cause her concern? It was all a matter of 85 cash flow, of money transferred from one account to the other, of bank loans and promissory notes. This year, because of insecticides, would bring his first bumper crop.

- 1. Which of the following topics preoccupies Alvaro during his drive?
  - The way he has handled doña Eugenia's inheritance
  - The falling price of the crop he had hoped would bring him financial security
  - The damage he has done to his reputation by making thoughtless career changes over the years
  - The personal and practical elements that factor into his efforts to succeed in business
- 2. Which of the following descriptions best fits Alvaro's approach to growing cotton as it is described in the passage?
  - F. Extremely arrogant; he feels entitled to success without working hard to achieve it.
  - G. Deeply involved; there is little he won't do to succeed.
  - H. Detached; he thinks the pursuit of wealth is better left to those who care about it.
  - J. Naïve; he has ignored the advice of those with years of experience growing the crop.
- 3. How does Alvaro's opinion of coffee and cotton compare to that of his mother's?
  - A. Alvaro thinks that cotton is the superior crop, but his mother thinks coffee is an equally lucrative crop.
  - B. Alvaro thinks that cotton is the better wartime crop, but his mother thinks coffee is.
  - C. Alvaro thinks that both crops are susceptible to insect infestation, but his mother thinks that neither is.
  - Alvaro thinks that cotton holds the more promising future for him, but his mother thinks coffee does.
- 4. How does Alvaro view the burden of responsibility his mother says she wants lifted from her shoulders?
  - As the barrier between Alvaro and his success at growing cotton
  - G. As the sorrow that mars the otherwise happy life of his mother
  - H. As an enduring presence that his mother works to her advantage
  - As a heavy weight that lifted from Alvaro's shoulders when he defied his mother

- 5. Which of the following phrases most accurately describes the last paragraph?
  - A. Wishful thinking supported by more wishful thinking
  - Painful realizations followed by widespread В. blaming
  - C. A sentiment and the experiences that reverse it
  - D. A stand taken by one person and supported by
- 6. According to the passage, where is Alvaro headed in his car on a late afternoon in early November?
  - His plantation outside Usulután
  - G. His law office
  - H. His mother's hacienda
  - J. His home in San Salvador
- 7. Which of the following actions is presented in the passage as being more figurative than literal?

  - В.
  - "Gripped the wheel" (line 1)
    "Took over the reins" (line 29)
    "Heard his mother's lamentations" (lines 37-38) C.
  - D. "Sown the best seed" (lines 54-55)
- 8. The quality of glass that is most strongly alluded to in lines 36-40 is:
  - fragility.
  - G. transparency.
  - H. smoothness.
  - J. sharp edges.
- 9. To what does Alvaro most directly attribute the rise of cotton prices?
  - A. The end of a world war
  - B. The effectiveness of new pesticides
  - C. The growth of the local textile industry
  - D. The failure of the previous year's harvest
- 10. In the context of the passage, the primary function of lines 63-67 is to list the occupations that Alvaro:
  - dabbled in but found less compelling than cotton
  - G. held in high regard though his mother did not.
  - H. had rejected as representing the foolish notions of his youth.
  - envisioned as being within his reach were he to J. succeed in farming cotton.

#### Passage II

SOCIAL SCIENCE: This passage is adapted from *The Tipping Point: How Little Things Can Make a Big Difference* by Malcolm Gladwell (©2002 by Malcolm Gladwell).

There is a concept in cognitive psychology called the channel capacity, which refers to the amount of space in our brain for certain kinds of information. Suppose, for example, that I played you a number of differ-5 ent musical tones, at random, and asked you to identify each one with a number. If I played you a really low tone, you would call it one, and if I played you a medium tone you would call it two, and a high tone you would call three. The purpose of the test is to find out 10 how long you can continue to distinguish among different tones. Most people can divide tones into only about six different categories before they begin to make mistakes and start lumping different tones in the same category. This is a remarkably consistent finding. If, for 15 example, I played you five very high pitched tones, you'd be able to tell them apart. And if I played you five very low pitched tones, you'd be able to tell them apart. You'd think, then, that if I combined those high and low tones and played them for you all at once, you'd be able to divide them into ten categories. But you won't be able to. Chances are you'll still be stuck at about six categories.

As human beings, we can only handle so much information at once. Once we pass a certain boundary, 25 we become overwhelmed. What I'm describing here is an intellectual capacity—our ability to process raw information. But if you think about it, we clearly have a channel capacity for feelings as well.

Take a minute, for example, to make a list of all 30 the people whom you would consider yourself truly close to. The average answer is 12 names. Those names make up what psychologists call our sympathy group. Why aren't groups any larger? Partly it's a question of time. If you look at the names on your sympathy list, 35 they are probably the people whom you devote the most attention to. If your list was twice as long, would you still be as close to everyone? Probably not. To be someone's friend requires a minimum investment of time. More than that, though, it takes emotional energy. At a 40 certain point, at somewhere between 10 and 15 people, we begin to overload, just as we begin to overload when we have to distinguish between too many tones.

Perhaps the most interesting natural limit, however, is what might be called our social channel capac45 ity. The case for a social capacity has been made, most persuasively, by the British anthropologist Robin Dunbar. Dunbar begins with a simple observation. Primates—monkeys, chimps, baboons, humans—have the biggest brains of all mammals. More important, a specific part of the brain of humans and other primates—the region known as the neocortex, which deals with complex thought and reasoning—is huge by mammal standards. For years, scientists have argued back and forth about why this is the case. One theory is that our

55 brains evolved because our primate ancestors began to engage in more sophisticated food gathering: instead of just eating grasses and leaves they began eating fruit, which takes more thinking power. You travel much farther to find fruit than leaves, so you need to be able to 60 create mental maps. You have to worry about ripeness. You have to peel parts away in order to eat the flesh of a fruit, and so on. The problem with that theory is that if you try to match up brain size with eating patterns among primates, it doesn't work. So what does corre-65 late with brain size? The answer, Dunbar argues, is group size. If you look at any species of primate—at every variety of monkey and ape—the larger their neocortex is, the larger the average size of the groups they live with.

Dunbar's argument is that brains evolve, they get bigger, in order to handle the complexities of larger social groups. If you belong to a group of five people, Dunbar points out, you have to keep track of ten separate relationships: your relationships with the four 75 others in your circle and the six other two-way relationships between the others. That's what it means to know everyone in the circle. You have to understand the personal dynamics of the group. If you belong to a group of twenty people, however, there are now 190 two-way 80 relationships to keep track of: 19 involving yourself and 171 involving the rest of the group. Even a relatively small increase in the size of a group creates a significant additional social and intellectual burden. Humans socialize in the largest groups of all primates because we are the only animals with brains large enough to handle the complexities of that social arrangement.

- 11. Which of the following statements best describes the organizational structure of the passage?
  - A. The author describes a psychological concept and then explores aspects of that concept that support a central claim.
  - B. The author presents theories about a psychological concept by describing his own experiences with it.

C. The author provides a chronology of the development of a psychological concept.

- D. The author presents a problem from the field of psychology and then offers several possible solutions to that problem.
- 12. Based on the passage, which of the following statements best captures the central idea behind the concept of channel capacity?
  - F. "There is a concept in cognitive psychology called the channel capacity" (lines 1-2).
  - G. "This is a remarkably consistent finding" (line 14).
  - H. "As human beings, we can only handle so much information at once" (lines 23-24).
  - J. "But if you think about it, we clearly have a channel capacity for feelings as well" (lines 27-28).

- 13. According to the passage, which of the following is a theory about the evolution of brain size in primates that is supported by some scientists but NOT by Dunbar?
  - A. Primates' brains increased in size only slightly as primates evolved.
  - B. Primates' brains became larger as primates' social groups became larger.
  - C. Primates' brains became larger because primates changed their eating habits.
  - **D.** Primates' brains evolved relatively slowly in comparison to the rest of their bodies.
- 14. The main idea of the last paragraph is that:
  - as brains evolve, they decrease in size.
  - Dunbar has gone to great lengths to try to prove his argument.
  - H. the neocortex is the part of the brain responsible for tracking social relationships.
  - humans have the largest brains of all primates because humans socialize in the largest groups.
- 15. The passage defines a sympathy group most specifically as:
  - A. a small group of animals of the same species.
  - B. any cluster of primates that live together.C. the people one feels truly close to.

  - D. a person's immediate family.
- 16. Which of the following statements best describes how the author views Dunbar's theory of social channel capacity?
  - He is intrigued by Dunbar's theory and finds Dunbar's argument compelling.
  - G. He believes Dunbar's argument is problematic but cannot disprove the theory.
  - He is unsure that Dunbar's theory will ever be accepted by the larger scientific community.
  - He believes Dunbar's argument is indisputable and that the supporting research is exhaustive.

- 17. Based on the passage, the assertion that primates have the largest brains of all mammals is presented as:
  - A. a fact that serves as the author's main point in the passage.
  - a fact that serves as the basis for Dunbar's argument.
  - C. an opinion the author offers to explain Dunbar's theory.
  - D. an opinion Dunbar is trying to prove with his theory.
- 18. As it is used in line 56, the word sophisticated most nearly means:
  - F. worldly.
  - G. complex.
  - H. cultured.
  - J. genteel.
- 19. According to the passage, one reason some scientists believe an animal uses more brainpower to eat fruits than it does to eat leaves is because fruits:
  - A. are smaller than leaves and require practice to eat.
  - B. cannot be eaten by all animals, unlike leaves.
  - C. offer more nutrition than most leaves.
  - **D.** are not as easily accessible as leaves.
- 20. Based on the passage, which of the following statements, if true, would most WEAKEN Dunbar's theory?
  - Some primates with relatively small neocortexes socialize in larger groups than humans.
  - G. The human brain is continuing to evolve as social networking expands.
  - Except for humans, apes have the largest brains among primates.
  - Mountain gorillas live in groups that average nine individuals.

#### Passage III

HUMANITIES: Passage A is adapted from the essay "On Miniatures" by Lia Purpura (©2006 by Lia Purpura). Passage B is adapted from the article "When the Virtual Trumps Reality: 'The Prayer Book of Claude de France'" by James Gardner (©2008 by TWO SL LLC).

#### Passage A by Lia Purpura

Why are miniature things so compelling?

The miniature is mysterious. We wonder how all those parts work when they're so small. It's why we linger over an infant's fingers and toes, those astonishing replicas: we can't quite believe they work. Chihuahuas work. Birds and bonsai trees work. Miniatures are improbable, unlikely. Causes to marvel. Surprises. Feats of engineering. Products of an obsessive detailer.

Miniatures offer changes of scale by which we 10 measure ourselves anew. On one hand, miniatures posit an omniscient onlooker, able to take in the whole at once. Consider your self in relation to dollhouses, snowglobes, frog spawn, aquariums, souvenir keychains you look through to see a picture of the very 15 spot you're visiting, stilled. You are large enough to hold such things fully in hand. On the other hand, miniatures issue invitations to their realm, and suggest we forget or disregard our size. In dollhouse land, you can walk through the kitchen, livingroom, bedroom 20 with your three inch high friend and, face pressed to the window, feel the cushions of the thumbnail loveseat hold you. Fit inside the miniature, we experience certain states of being or belief: worlds in a grain of sand; eternities in wildflowers. Regions beyond our normal-25 sized perception. Whether we are, in relation to them, omniscient or companionably small beings, miniatures invite us to leave our known selves and perspectives behind.

Miniatures encourage attention—in the way whispering requires a listener to quiet down and incline
toward the speaker. Sometimes we need binoculars,
microscopes, viewmasters to assist our looking, but
mediated or not, miniatures suggest there is more there
than meets the eye easily. They suggest there is much to
miss if we don't look hard at spaces, crevices, crannies.

The miniature, a working, functioning complete world unto itself, is not merely a "small" or "brief" thing or a "shortened" form of something larger. Miniatures transcend their size. Most strangely to me, minia-40 tures are radically self-sufficient. The beings who inhabit fairylands, those elves and sprites, pixies and trolls, don't usually strive to be our pals. They don't need us. Their smallness is our problem, or intrigue, or desire.

#### Passage B by James Gardner

Without meaning to do so, the Morgan Library has created a triumph of conceptual art: the smallest art exhibition in the world. "The Prayer Book of Claude de France," as the exhibition is called, consists of nothing other than "The Prayer Book of Claude de France." At 50 2 3/4 by 2 inches, the exhibition and the book are both so small that they can fit in the palm of your hand. That may not sound like much until you realize that this illuminated miniature contains 132 scenes from the lives of Christ, the Virgin, the apostles, and sundry saints. As 55 such, it is a gallery unto itself.

In "The Work of Art in the Age of Mechanical Reproduction," Walter Benjamin's overrated essay of 1936, the author famously asserted that no one would feel the need to stand before the original when one could own a reproduction. The folly of this idea will be self-evident to anyone with the remotest sensitivity to visual art. No matter how good a reproduction, you have to bear physical witness to each pucker and weave of canvas, each splash of puddled ink in an Old Master 65 drawing. Only then can you truly say that you have seen the work of art.

It was with such convictions that I rushed over to the Morgan to see the tiny commodity in question. What a waste of time! Not because the object is lacking 70 in worthiness, but because the Morgan's own Web site offers a means of examining the book that, in this case, far surpasses any direct encounter. Every page of the manuscript is there in living color, and the zoom mechanism is so powerful and so precise that you can get in 75 closer than if you were hunched over the real thing with a strong magnifying glass. Zoom in to one of the figures, scarcely the size of a fingernail, and you see the tiny head in perfect focus. Zooming in deeper, you see the beard on the head, then the hairs on the beard, then 80 the point at which the whole thing dissolves into abstract art, as the strokes of the artist's single-hair brush merge with the warped and mottled surface of the vellum.

The miniature in question was commissioned for 85 Queen Claude of France. Nearly three generations after the invention of printing, there was no practical reason to commission this work. Rather, it was the delight in luxury itself, as well, perhaps, as the spirit of sacrifice that brought this work into existence.

#### Questions 21-23 ask about Passage A.

- 21. The organization of Passage A is best described as a list of:
  - A. innovations in miniature art followed by an explanation of techniques for creating miniatures.
  - B. misconceptions about miniature art followed by a personal account of working with miniatures.
  - C. qualities miniature things share, including descriptive examples that illustrate these qualities.
  - D. reasons artists create miniature things, including testimonies from major artists.

- 22. The example of "dollhouse land" (lines 18-22) primarily serves to illustrate the author's point that miniatures can encourage people to:
  - F. live life at a slower pace.
  - G. disregard their own size.
  - H. remember important places.
  - J. look hard at hidden crevices.
- 23. As it is used in line 33, the word mediated most nearly means:
  - A. considered.
  - B. advised.
  - C. solved.
  - D. aided.

#### Questions 24-27 ask about Passage B.

- 24. The author of Passage B most likely summarizes the assertions of the essayist Benjamin in order to:
  - F. explain the principle the Morgan Library used when deciding whether to show the original prayer book or a reproduction.
  - G. present a major argument in the art field that the passage author rejected when deciding to view the prayer book in person.
  - H. support the passage author's assertion that the prayer book is a gallery unto itself.
  - offer a second reviewer's opinion of the prayer book.
- 25. According to Passage B, were the author's expectations about seeing the prayer book in person ultimately met?
  - A. Yes, because he was able to view the detail of the book down to its brushstrokes.
  - **B.** Yes, because he was able to learn about the book's history while at the exhibit.
  - C. No, because he was able to view the book in greater detail using the library's website.
  - **D.** No, because he found the artwork in the book to be of poor quality.
- 26. The author of Passage B indicates that the figures in the prayer book are approximately the size of:
  - F. a fingernail.
  - G. a pucker of canvas.
  - **H.** the palm of a hand.
  - J. a single hair.

- 27. The author of Passage B speculates that one reason the prayer book was commissioned was to allow its owners to:
  - enjoy the extravagance of possessing an elaborate work of art.
  - B. avoid the unpredictability of early printing methods.
  - C. help the book's artist create miniatures for a living.
  - D. instill a love of reading in Queen Claude.

#### Questions 28-30 ask about both passages.

- 28. Compared to the writing style of Passage B, the writing style of Passage A is more:
  - F. indignant and argumentative.
  - G. contemplative and whimsical.
  - H. flippant and sarcastic.
  - J. literal and scientific.
- 29. Which of the following statements best captures a main difference in the focus of the two passages?
  - A. Passage A focuses on the appeal of miniatures in general, while Passage B focuses on the experience of viewing a single miniature object.
  - B. Passage A focuses on the author's memories of miniatures from her childhood, while Passage B focuses on a famous collection of miniatures.
  - C. Passage A focuses on the historical significance of miniatures, while Passage B focuses on how miniatures influence contemporary art.
  - D. Passage A focuses on miniatures as an art form, while Passage B focuses on the practical uses of miniatures.
- 30. Based on the passages, both authors would most likely agree that an important factor contributing to the artistic value of a miniature is the artist's ability to:
  - F. create working replicas of larger, real objects.
  - G. master the use of unusual and costly materials.
  - H. conceal abstract art within more realistic images.
  - J. render objects and images with painstaking detail.

#### Passage IV

NATURAL SCIENCE: This passage is adapted from the article "Back to the Future" by J. Madeleine Nash (©2008 by J. Madeleine Nash).

The Sand Creek Divide is a high point in Wyoming's Big Horn Basin. From it you can see the emerald patchwork of irrigated sugar beet and malt barley fields that hug the Big Horn River as well as the 5 jagged mountain ranges that define the edges of this harsh mid-latitude desert.

But between 55 and 56 million years ago, says Scott Wing, a paleo-botanist at the Smithsonian's Museum of Natural History, the Big Horn Basin was a 10 balmy, swampy Eden, teeming with flora and fauna that would be at home in today's coastal Carolinas. And then, all of a sudden, things got a whole lot warmer. In a geological eye blink—less than 10,000 years, some think—global mean temperatures shot up by around 15 10 degrees Fahrenheit.

The Big Red, a sinuous ribbon of rose-colored rock, is the most vivid marker of this exceptionally torrid time—the Paleocene-Eocene Thermal Maximum, or PETM, as most paleontologists call it. Even before it 20 had a name, the PETM was starting to fascinate Wing. For some time, it had been clear to paleontologists studying the evolution of mammals that the transition between the Paleocene and the Eocene was marked by the kind of innovative burst that implies sweeping ecological change. Yet no hint of such a change had appeared in any of the fossil leaves Wing had collected. He would stare at leaves from the Paleocene and leaves from the Eocene, but see almost no difference between them. "It was getting to be annoying," he recalls.

The Paleocene is the geological epoch that started 65 million years ago. At the time, mammals were rather simple, general-purpose creatures with few specializations. Then, barely 10 million years later, at the dawn of the Eocene, the first relatives of deer abruptly 35 appear, along with the first primates and first horses.

"You can literally draw a line in the rock," says Philip Gingerich, a vertebrate paleontologist at the University of Michigan. "Above it there are horses; below it there aren't." In fact, where Gingerich works—at 40 Polecat Bench, in the northern sector of the Big Horn Basin—you can actually see the line, in the form of a band of light gray sandstone. Oddly enough, many fossil mammals commonly found above this line, including those first horses, were abnormally small. Typically, Gingerich says, Eocene horses grew to the size of modern-day cocker spaniels, but these horses were "about the size of Siamese cats."

In 1991, as Gingerich and others were marveling over the miniature mammals of Polecat Bench, oceanographers James Kennett and Lowell Stott investigated a major extinction of small, shelly creatures that, during the late Paleocene, lived on the sea floor

off the coast of Antarctica. This massive die-off, they found, coincided with a steep rise in deep-ocean tem-55 peratures and a curious spike in atmospheric carbon.

Less than a year later, paleontologist Paul Koch and paleo-oceanographer James Zachos teamed up with Gingerich to show that this geochemical glitch had also left its calling card on land. The trio established this indirectly by measuring the carbon content of fossilized teeth and nodules plucked from the Big Horn Basin's 55.5-million-year-old rocks.

To Wing, it began to seem increasingly implausible that plant communities could have segued through 65 the PETM unaffected. So in 1994, he started a methodical search for the fossils, returning year after year to the Big Horn Basin.

At first, he found just a smattering of leaves, too few to suggest any pattern. Then, in 2005, at the end of 70 a long day, he slid his shovel into a grayish mound and pulled out a tiny leaf. "I knew immediately that this was totally different from anything I'd seen before."

From that one site, Wing went on to extract more than 2,000 leaf fossils representing 30 different species.

75 Missing from the mix are the cypresses and other conifers that were so common during the Paleocene; gone also are the distant cousins of broadleaf temperate zone trees. In their place are the legumes, a family of plants, shrubs and trees that thrive today in seasonally 80 dry tropical and subtropical areas.

"What you see is almost a complete changeover from what was growing here before," Wing marvels. "What this means is that you could have stood in this one spot in Wyoming, surrounded by a forest, and everything would have looked pretty much the same for millions of years. And then, over a few tens of thousands of years, almost all the plants you're familiar with disappear and are replaced by plants you've never seen before in your life."

- 31. Within the passage, the discussion of Wing's scientific research primarily functions as:
  - A. an example of a study that resulted in the discovery of the Big Red.
  - B. an illustration of the methods used to date geological epochs.
  - C. a counterargument to current assumptions about the PETM.
  - D. a framework for exploring the PETM and various investigations of it.

- 32. As summarized in the passage, Wing's research focuses primarily on:
  - F. comparing fossilized plant life from the Paleocene and the Eocene.
  - G. measuring the carbon content of fossilized teeth from the time of the PETM.
  - H. determining the rock and mineral content of the Big Red.
  - analyzing the mammal fossils found throughout the Big Horn Basin.
- 33. The last three paragraphs (lines 68-89) support which of the following conclusions about Wing and his research?
  - A. He has yet to find concrete support for his hypothesis.
  - B. He has serious reservations about his hypothesis based on the evidence he has found.
  - C. He has discovered evidence that supports his hypothesis.
  - D. He is relying on the findings of other researchers who study ancient plants in order to support his hypothesis.
- 34. Based on the passage, which of the following features of the Big Horn Basin serves as the best evidence that the transition between the Paleocene and the Eocene was, geologically speaking, abrupt?
  - F. The abundance of fossilized sea creatures
  - G. The abundance of fossilized Eocene leaves
  - H. The jagged mountain ranges surrounding the area
  - J. The band of light gray sandstone at Polecat Bench
- 35. Which of the following events referred to in the passage occurred last chronologically?
  - A. Miniature fossils were found at Polecat Bench.
  - B. Wing began his methodical search for fossils in the Big Horn Basin.
  - C. Kennett and Stott investigated a major extinction of small, shelly creatures.
  - D. Koch, Zachos, and Gingerich measured the carbon content of fossilized teeth and nodules.

- 36. The passage specifically mentions which of the following types of leaf fossils as a type that was found by Wing?
  - F. Legume
  - G. Conifer
  - H. Cypress
  - J. Broadleaf
- 37. The passage indicates that which of the following is true of the first relatives of deer?
  - A. They had few specializations.
  - B. They were a precursor to the first horses.
  - C. They are present in the Paleocene fossil record.
  - D. They appeared during the early Eocene.
- 38. According to the passage, which of the following scientists focused his research on an area outside of the Big Horn Basin?
  - F. Wing
  - G. Kennett
  - H. Gingerich
  - J. Zachos
- 39. As it is used in line 58, the phrase geochemical glitch most nearly refers to the:
  - A. low carbon levels found in 55.5-million-year-old Big Horn Basin rocks.
  - B. spike in atmospheric carbon that occurred during the late Paleocene.
  - C. steep rise in deep-ocean carbon levels that occurred during the late Paleocene.
  - D. low carbon levels found in fossilized plants.
- **40.** The primary function of the eighth paragraph (lines 63-67) is to:
  - F. introduce Wing's theories about the Polecat Bench mammal fossils.
  - G. summarize the passage's preceding discussion of the PETM.
  - H. shift the passage's focus back to Wing and his study of fossilized plants.
  - J. cast doubt on the previously discussed findings of Koch, Zachos, and Gingerich.

**END OF TEST 3** 

STOP! DO NOT TURN THE PAGE UNTIL TOLD TO DO SO.

DO NOT RETURN TO A PREVIOUS TEST.

### Scoring Keys for Form B02

Use the scoring key for each test to score your answer document for the multiple-choice tests. Mark a "1" in the blank for each question you answered correctly. Add up the numbers in each reporting category and enter the total number correct for each reporting category in the blanks provided. Also enter the total number correct for each test in the blanks provided. The total number correct for each test is the sum of the number correct in each reporting category.

Test 1: English—Scoring Key

		Reporting Category*		
	Key	POW	KLA	CSE
1.	Ç			<u>-</u>
2. 3.	J B			
4.	Н			
5.	В			
6.	j			
7. 8.	D			
9.	H B			
10.	G			
11.	D			
12.	F			
13. 14.	A			
15.	A			
16.	J			
17. 18.	C F			
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20.	G		-	
21.	D	1		
22. 23.	H B			-
23. 24.	F	-		
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45.	D			
46.	Н			
47.	В			
48.	F			
49.	В			
50.	J			
51.	В			
52. 53.	F			
53. 54.	A H	1		
55.	D			
56.	J	ŀ		***********
57.	Α	•		
58.	н			
59.	В			
60.	J			********
61.	C			
62.	F			
63. 64.	D F			
65.	В			
66.	G			
67.	D			
68.	н			
69.	Α	1	1	
70.	J	1	l	
71.	A	1		
72. 73.	G		I	
73. 74.	B		1	
74. 75.	В			

\*Reporting Categories

POW = Production of Writing

KLA = Knowledge of Language

CSE = Conventions of Standard English

Number Correct (Raw Score) for:		
Production of Writing (POW)		
( C11)	(23)	
Knowledge of Language (KLA)		
J J J , , , , , ,	(12)	
Conventions of Standard English (CSE)		
· ,	(40)	
Total Number Correct for English Test		
POW + KLA + CSE)	(75)	

Test 3: Reading—Scoring Key

			eporti atego	
	Key	KID	CS	IKI
1.	D			
2.	G			
3.	D			
4.	Н			
5.	Α			
6.	J			
7.	В			
8.	G			
9.	С			
10.	F			
11.	Α			
12.	Н			
13.	С			
14.	J			
15.	С			
16.	F			
17.	В			
18.	G			
19.	D			
20.	F	1		

			eporti atego	
	Key	KID	cs	IKI
21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39.	CGDGCFAGAJDFCJBFDGBH			

## \*Reporting Categories

KID = Key Ideas & Details CS = Craft & Structure

IKI = Integration of Knowledge & Ideas

Number Correct (Raw Score) for:			
Key Ideas & Details (KID)			
	(23)		
Craft & Structure (CS)			
	(12)		
Integration of Knowledge & Ideas (IKI)			
	(5)		
Total Number Correct for Reading Test			
(KID + CS + IKI)	(40)		

Test 4: Science—Scoring Key

			Reporting Category*		
	Key	IOD	SIN	EMI	
1.	A				
2.	F				
3.	C				
4.	G				
5.	С				
6.	J				
7.	D				
8.	Н				
9.	В				
10.	F				
11.	В				
12.	G			1	
13.	D				
14.	Н				
15.	С			l	
16.	F			l	
17.	Α			1	
18.	G			1	
19.	Α				
20.	J				

	-	Reporting Category*		
	Key	IOD	SIN	EMI
21.	С			
22.	Н			
23.	C			
24.	F			
25.	С			
26.	G			
27.	В			
28.	F			
29.	С			
30.	F			
31.	В			
32.	F			
33.	D			
34.	F			
35.	В			
36.	G	1		
37.	D			
38.	j	1		
39.	Ā	- 1	- [	
40.			1	
TU.		1		

\*Reporting Categories IOD = Interpretation of Data

SIN = Scientific Investigation

EMI = Evaluation of Models,

Inferences & Experimental Results

Number Correct (Raw Score) for:		
Interpretation of Data (IOD)		
Scientific Investigation (SIN)	(17)	
	(12)	
Evaluation of Models, Inferences & Experimental Results (EMI)		
•	(11)	
Total Number Correct for Science Test (IOD + SIN + EMI)	(40)	

# Explanation of Procedures Used to Obtain Scale Scores from Raw Scores

On act of the four tests on which you marked any response. the total number of correct responses yields a raw score. Use the table below to convert your raw scores to scale scores, for each test, locate and circle your raw score or the range of ray scores that includes it in the table below. Then, read acrosso either outside column of the table and circle the scale stor that corresponds to that raw score. As you determise our scale scores, enter them in the blanks provided on the light. The highest possible scale score for each test is 36. The loest possible scale score for any test on which you marked ar responses is 1.

Next, compute the Composite score by averaging the four scale scores. To do this, add your four scale scores and divide the sum r 4. If the resulting number ends in a fraction, round it off to thee arest whole number. (Round down any fraction less than one alf; round up any fraction that is one-half or more.) Enter th number in the blank. This is your Composite score. The higest possible Composite score is 36. The lowest possible Composite score is 1.

ACT Test B02	Your Scale Score
English	***
Mathematics	****
Reading	****
Science	
Sum of scores	
Composite score (sum ÷ 4)	**************************************
	All and the state of the state

NOTE: If you left a test completely blank and marked no items, do not list a scale score for that test. If any test was completely blank, do not calculate a Composite score.

		Raw	Scores		
Scale Score	Test 1 English	Test 2 Mathematics	Test 3 Reading	Test 4 Science	Scale Score
36	74-75	59-60	40	39-40	36
35	71-73	57-58	39	38	35
34	70	56	37-38	37	34
33	68-69	55	36	36	33
32	67	54	35	35	32
31	66	52-53	34	34	31
30	64-65	50-51	33		30
29	62-63	48-49	32	33	29
28	61	46-47	31	32	28
27	59-60	43-45	30	31	27
26	57-58	40-42	29	29-30	26
25	55-56	37-39	28	28	25
24	52-54	34-36	27	26-27	24
23	49-51	32-33	26	25	23
22	46-48	30-31	24-25	23-24	22
21	43-45	28-29	23	21-22	21
20	41-42	27	22	20	20
19	39-40	25-26	20-21	18-19	19
18	37-38	22-24	19	17	18
17	35-36	19-21	17-18	16	17
17 16	32-34	15-18	16	14-15	16
, ,	29-31	12-14	14-15	13	15
14	26-28	10-11	13	12	14
13	24-25	8-9	12	10-11	13
12	23	6-7	10-11	9	12
11	20-22	5	9	8	11
10	17-19	4	8	7	10
9	15-16		8 7	6	9
8	13-14	3		5	8
7	10-12	2	5	4	7
6	8-9	_	6 5 4 3	3	6
5	6-7	_	3		5
5 4 3 2	5	3 2 — 1		2	6 5 4
3	3-4	_	2	1	3
	2	_	2 1		9
1	0-1	0	Ö	0	3 2 1