SECTION ONE

LISTENING COMPREHENSION Time - approximately 35 minutes (including the reading of the directions for each part)

In this section of the test, you will have an opportunity to demonstrate your ability to understand conversations and talks in English. There are three parts to this section, with special directions for each part. Answer all the questions on the basis of what is stated or implied by the speakers you hear. Do not take notes or write in your test book at any time. Do **not** turn the pages until you are told to do so.

Part A

<u>Directions:</u> In Part A you will hear short conversations between two people. After each conversation you will hear a question about the conversation. The conversations and questions will not be repeated. After you hear a question, read the four possible answers in your test book and choose the best answer. Then, on your answer sheet, find the number of the question and fill in the space that corresponds to the letter of the answer you have chosen.

Listen to an example.

Sample Answer

On the recording, you will hear:

(man) That exam was just awful. (woman) Oh, it could have been worse. (narrator) What does the woman mean?



In your test book, you will read: (A) The exam was really awful.

- (B) It was the worst exam she had ever seen.
- (C) It couldn't have been more difficult.
- (D) It wasn't that hard.

You learn from the conversation that the man thought the exam was very difficult and that the woman disagreed with the man. The best answer to the question, "What does the woman mean?" is (D), "It wasn't that hard." Therefore, the correct choice is (D).

- 1. (A) She has rules about how to play
 - (B) Her goal is to pay for school
 - (C) She is praying not to have a low score
 - (D) She'll be acting in a school project
- 2. (A) She'd like something to drink
 - (B) She'd like to have thirty
 - (C) She'd like a bite to eat
 - (D) She's a bit thrifty
- 3. (A) She's moving in the opposite direction
 - (B) She's wide awake
 - (C) The rest of the people are tired
 - (D) She needs to take a nap
- 4. (A) He'll continue to stand in line for texts
 - (B) He has enough to pay for the texts
 - (C) He agrees with the woman about the texts
 - (D) He thinks the woman's in the wrong line to get the texts
- 5. (A) He was given the wrong key
 - (B) The key was on top of the clock
 - (C) It was lucky that he got the key
 - (D) The key was at his feet
- 6. (A) He went to the conference
 - (B) He saw his friends at the conference
 - (C) He was in his place at the conference
 - (D) He sent a representative
- 7. (A) She will see the lawyer tomorrow
 - (B) She needs to phone the lawyer
 - (C) The lawyer will call her tomorrow
 - (D) The lawyer has called off their meeting
- 8. (A) There's a lot of difficult homework in it
 - (B) There are not very many exams in it
 - (C) There is little homework
 - (D) There is no homework

- 9. (A) Returning to it later
 - (B) Coming back home
 - (C) Finishing the math book
 - (D) Leaving for class
- 10. (A) He'll make a charitable contribution
 - (B) He couldn't get into the classroom
 - (C) He didn't have very much to say
 - (D) He was not given the chance to speak
- 11. (A) He thought it was extremely fruitful
 - (B) He's happy he didn't attend it
 - (C) A lot of people missed it
 - (D) It was perturbing
- 12. (A) He'd like the woman to repeat herself
 - (B) The woman should talk to a physician
 - (C) He shares the woman's position
 - (D) What the woman said was important
- 13. (A) To see a dentist
 - (B) To see a cardiologist
 - (C) To see a podiatrist
 - (D) To see an ophthalmologist
- 14. (A) She is too scared to try it
 - (B) She would like another opportunity
 - (C) Her time is very scarce
 - (D) She has gone skiing for the last time
- 15. (A) He really enjoyed the conference
 - (B) He'll be able to go to the conference
 - (C) He couldn't attend the conference
 - (D) He heard everything at the conference
- 16. (A) She doesn't need a jacket for the game
 - (B) She was very uncomfortable last time
 - (C) She will take a jacket with her this time
 - (D) Her jacket does not feel very comfortable

- 17. (A) He parked the car to buy the tickets
 - (B) He left the car where he shouldn't have
 - (C) He got a speeding ticket
 - (D) He didn't park the car
- 18. (A) She prepared him for what he was going to do
 - (B) She was unprepared for what she had to do
 - (C) She probably didn't spend much time on her presentation
 - (D) She was really ready for her presentation
- 19. (A) He has never gone sailing
 - (B) He doesn't like sailing
 - (C) He hasn't had much time for sailing
 - (D) He doesn't have any time to go sailing
- 20. (A) That the man had been in class
 - (B) That the man didn't have the notes
 - (C) That she didn't need the notes
 - (D) That the lecture had been canceled
- 21. (A) She listened attentively during class
 - (B) She must make the list five pages long
 - (C) She did not attend all of the class
 - (D) She was inattentive during some of the class
- 22. (A) He's not quite sure when the projects should be finished
 - (B) He's doing his project for music class now
 - (C) Music class meets for the first time in December
 - (D) He believes the music will be available on December 1
- 23. (A) The tuition increase was unexpected
 - (B) She was prepared for the tuition increase
 - (C) She doesn't believe that fees were increased
 - (D) She believes that tuition will not go up

- 24. (A) She answered his question a minute ago
 - (B) She just bit her tongue
 - (C) It's hard for her to put the answer into words
 - (D) The tip of her tongue is quite sore
- 25. (A) Some of them are lying down
 - (B) Some of them will lose their positions
 - (C) Some of them are choosing part-time jobs
 - (D) Some of them laid down their newspaper
- 26. (A) She's unhappy about the score
 - (B) She hasn't seen her score yet
 - (C) She's really pleased with her score
 - (D) She hasn't taken the exam yet
- 27. (A) He didn't believe the course was hard
 - (B) He heard that the course was closed
 - (C) It was hard for him to get to the class
 - (D) He registered for the course
- 28. (A) He didn't go because he was sleeping
 - (B) He didn't miss the committee meeting
 - (C) He never returned from class
 - (D) He was unable to fall asleep
- 29. (A) That he would be working all weekend
 - (B) That no one ever worked on weekends
 - (C) That he would not be in the office this weekend
 - (D) That the office would be open this weekend
- 30. (A) They should not let what happened bother them
 - (B) They should keep on trying to talk to Mary
 - (C) They should try to flatter Mary
 - (D) Their project is already as good as it's going to get

Part B

<u>Directions:</u> In this part of the test, you will hear longer conversations. After each conversation, you will hear several questions. The conversations and questions will not be repeated.

After you hear a question, read the four possible answers in your test book and choose the best answer. Then, on your answer sheet, find the number of the question and fill in the space that corresponds to the letter of the answer you have chosen.

Remember, you are **not** allowed to take notes or write in your test book.

- 31. (A) To a doctor's appointment.
 - (B) To an exercise club
 - (C) To a swimming pool
 - (D) To a school
- 32. (A) They're both regular members
 - (B) He likes to go there occasionally
 - (C) She wants him to try it out
 - (D) She hates to exercise alone
- 33. (A) A limited number
 - (B) Racquetball courts and a swimming pool
 - (C) Exercise machines, but not classes
 - (D) Just about anything
- 34. (A) Visit the club once
 - (B) Tale put a membership
 - (C) Try the club unless he hurts himself
 - (D) See if he has time to go

- 35. (A) A presentation for political science class
 - (B) How quickly time passes
 - (C) The differences between the various types of courts
 - (D) A schedule for preparing for a political science exam
- 36. (A) Three levels of courts
 - (B) Only the municipal courts
 - (C) The state but not the federal courts
 - (D) Only the state and federal courts
- 37. (A) On Thursday
 - (B) On Monday
 - (C) In a week
 - (D) Before Monday
- 38. (A) Plenty of time
 - (B) Until Monday
 - (C) About one week
 - (D) Until a week from Monday

Part C

Directions: In this part of the test, you will hear several talks. After each talk, you will hear several questions. The talks and questions will not be repeated.

After you hear a question, read the four possible answers in your test book and choose the best answer. Then, on your answer sheet, find the number of the question and fill in the space that corresponds to the letter of the answer you have chosen.

Here is an example.

On the recording, you will hear

(narrator) (man)

Listen to an instructor talk to his class about painting. Artist Grant Wood was a guiding force in the school of painting known as American regionalist, a style reflecting the distinctive characteristics of art from rural areas of the United States. Wood began drawing animals on the family farm at the age of three, and when he was thirty-eight one of his paintings received a remarkable amount of public notice and acclaim. This painting, called "American Gothic," is a starkly simple depiction of a serious couple staring directly out at the viewer.

Now listen to a sample question.

Sample Answer

(narrator) What style of painting is known as American regionalist?

In your test book, you will read: (A) Art from America's inner cities. (B) Art from the central region of the United States.

Art from various urban areas in the United States.

(D) Art from rural sections of America.

The best answer to the question, "What style of painting is known as American regionalist?" is (D), "Art from rural sections of America." Therefore, the correct choice is (D).

Now listen to another sample question.

Sample Answer

(narrator) What is the name of Wood's most successful painting?

In your test book, you will read: (A) "American Regionalist."

(B) "The Family Farm in Iowa."

(C) "American Gothic."

(D) "A Serious Couple."

The best answer to the question, "What is the name of Wood's most successful painting?" is (C), "American Gothic." Therefore, the correct choice is (C).

Remember, you are not allowed to take notes or write in your test book.

- 39. (A) A university administrator
 - (B) A student
 - (C) A librarian
 - (D) A registrar
- 40. (A) How to use the library
 - (B) The university registration procedure
 - (C) Services offered by the Student Center
 - (D) Important locations on campus
- 41. (A) To provide students with assistance and amusement
 - (B) To assist students in the registration process
 - (C) To allow students to watch movies
 - (D) To provide textbooks for university courses
- 42. (A) In administrators' offices
 - (B) In the Student Center
 - (C) In an auditorium
 - (D) In the Student Records Office
- 43. (A) Natural soaps
 - (B) Synthetic detergents
 - (C) Biodegradable detergents
 - (D) Phosphates
- 44. (A) Synthetic detergents
 - (B) A major cause of water pollution
 - (C) Substances that break down into simpler forms
 - (D) The reason for the foaming water supply

- 45. (A) They broke down into simpler forms
 - (B) They cause the water to become foamy
 - (C) They released phosphates into the water
 - (D) They damaged only the underground water supply
- 46. (A) Water pollution in the 1950s
 - (B) Nonbiodegradable synthetic detergents
 - (C) The foamy water supply
 - (D) Problems caused by the phosphates
- 47. (A) The static atmosphere
 - (B) The cause of changes in the atmosphere
 - (C) The evolution of plant life
 - (D) The process of photosynthesis
- 48. (A) Two hundred million years ago
 - (B) Twenty million years ago
 - (C) Two hundred thousand years ago
 - (D) Twenty thousand years ago
- 49. (A) The evolution of plants and photosynthesis
 - (B) The variety of gasses in the atmosphere
 - (C) The high percentage of nitrogen
 - (D) The ammonia and methane in the original atmosphere
- 50. (A) Read about the composition of the atmosphere
 - (B) Study the notes of today's lecture
 - (C) Prepare for a quiz
 - (D) Read the following chapter

SECTION TWO

STRUCTURE AND WRITTEN EXPRESSION Time - 25 minutes (including the reading of the directions for each part) Now set your clock for 25 minutes

This section is designed to measure your ability to recognize language that is appropriate for standard written English. There are two types of questions in this section, with special directions for each type.

Structure

<u>Directions</u>: These questions are incomplete sentences. Beneath each sentence you will see four words or phrases, marked (A), (B), (C), and D. Choose the **one** word or phrase that best completes the sentence. Then, on your answer sheet, find the number of the question and fill in the space that corresponds to the letter of the answer you have chosen.

Look at the following examples.

Exa	mple	I	
			Sample Answer
	The	president the election by a landslide.	4 4
4,	(A)	Won	ego ego finite a B
	(B)	he won	® ©
	(C)	yesterday	
	(D)	fortunately	5.4 (. Tr
	nce sl swer mple	nould read, "The president won the election by (A).	a landslide." Therefore, you should
	-		Sample Answer
	Whe	enthe conference?	
			(A)
	(A)	the doctor attended	
	(B)	did the doctor attend	
1	(C)	the doctor will attend	$\overline{\mathbb{D}}$
	(D)		_
The senter	nce sh	ould read, "When did the doctor attend the cor	nforence?" Therefore

The sentence should read, "When did the doctor attend the conference?" Therefore, you should choose answer (B).

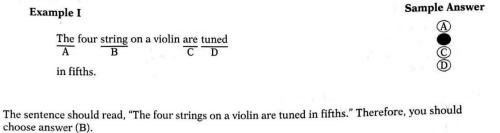
1. Different hormones at the same time on a	7. Hail forms within large, dense cumulonimbus
particular target issue.	develop on hot, humid summer days.
(A) usually act	(A) clouds
(B) usually acting	(B) clouds that
(C) they usually act	(C) clouds that are
(D) the usual action	(D) clouds that they
2. The tidal forces on the Earth due to only	8. Measles is a highly contagious viral disease
0.46 of those due to the Moon.	by a characteristic skin rash.
(A) the Sun is	(A) accompany
(B) the Sun they are	(B) is accompanied
(C) the Sun it is	(C) accompanied
(D) the Sun are	(D) it is accompanied
3. Most radioactive elements occur in igneous and	9. Charles Darwin's first scientific book, published in
metamorphic fossils occur in sedimentary	1842, a since substantiated theory on the
rocks.	origin of coral reefs and atolls.
(A) rocks, nearly all	(A) to present
(B) rocks, but nearly all	(B) presented
(C) rocks, nearly all are	(C) presenting
(D) rocks, which nearly all are	(D) it presents
4 radioisotope is encountered, the first step	10. Phytoplanktons thrive where phosphorus
in its identification is the determination of its half-life.	into the upper layers of a body of water.
(A) An unknown	(A) upwelling currents circulate
(B) Afterwards, an unknown	(B) the circulation of upwelling currents
(C) When an unknown	(C) are upwelling currents
(D) During an unknown	(D) circulates upwelling currents
5. The Missouri longest river in the United	11. By the end of 1609, Galileo had a 20-power
States, flows through seven states from its source in	telescope that enabled him to see planets
Montana to its confluence with the Mississippi.	revolving around Jupiter.
(A) River, the	(A) the call
(B) River is the	(B) he called
(C) River is one of the	(C) to call him
(D) River, one of the	(D) what he called
6. Coral islands such as the Maldives are the tips of	12. On every continent except Antarctica
reefs built during periods of warm climate, when	more than 30,000 species of spiders.
higher.	(A) some are
(A) were sea levels	(B) some of the
(B) sea had levels	(C) are some of the
(C) having sea levels	(D) is some
(D) sea levels were	

13. Many bugs possess defensive scent glands and	14. Hurricanes move with the large-scale wind		
emit disagreeable odors when	currents are imbedded.		
(A) disturbed	(A) that they		
(B) are disturbed	(B) which they		
(C) they disturbed	(C) in that they		
(D) are they disturbed	(D) in which they		
	15 the Earth's ice to melt, the Earth's oceans would rise by about two hundred feet.		
	(A) If all (B) Were all (C) If all were		
	(D) All was		

Structure

<u>Directions</u>: In these questions, each sentence has four underlined words or phrases. The four underlined parts of the sentences are marked (A), (B), (C), and D. Identify the **one** word or phrase that must be changed in order for the sentence to be correct. Then, on your answer sheet, find the number of the question and fill in the space that corresponds to the letter of the answer you have chosen.

Look at the following examples.



Example II	Sample Answer		
The research for the book R	(A)		
A B	C		
Alex Haley twelve years	①		

The sentence should read, "The research for the book *Roots* took Alex Haley twelve years." Therefore, you should choose answer (C).

16. The <u>brilliantly</u> colored rhinoceros viper <u>has</u> two or three <u>horns</u> above each <u>nostrils</u> A B C D
17. Most of the <u>outer</u> planets <u>has</u> large swarms of satellites <u>surrounding</u> <u>them</u> . A B C D
18. Historical records show that Halley's comet has return about every 76 years for the past A B C D
2,000 years.
19. Robert Heinlein was instrumental in popularizing science fiction with a series of stories A B C
that <u>is</u> first published in the <i>Saturday Evening Post</i> . D
20. Each <u>number</u> on the Richter scale <u>represent</u> a tenfold increase in the amplitude of waves A B
of <u>ground motio</u> n <u>recorded</u> during an earthquake. C D
21. Lake Tahoe, <u>located</u> on the <u>eastern edge</u> of the Sierra Nevada range, is <u>feed</u> by more A B
than thirty mountain <u>streams</u> . D
22. <u>Established</u> in 1789 and operated by the Jesuits, Georgetown University in Washington,
D.C. is the <u>older Roman Catholic institution of higher</u> learning <u>in</u> the United States. B C D
23. The surface of the planet Venus is <u>almost</u> completely <u>hid</u> by the <u>thick</u> clouds that <u>shroud</u> A B C D
it.
24. <u>Present</u> in rocks of <u>all types</u> , hematite is <u>particular</u> abundant in the sedimentary rocks A B C known as red beds.
D
25. Tropical cyclones, <u>alike</u> extratropical cyclones, <u>which</u> derive much of <u>their</u> energy from A B C
the jet stream, originate <u>far from</u> the polar front. D
26. Elizabeth Cady Stanton organized the first U.S. <u>women's rights</u> convention in 1848 and A B
was <u>instrumentally</u> in the struggle to win <u>voting and property</u> rights for women. C D

27. Jaguarundis are sleek, long	<u>ı-tailed</u> creatures <u>cc</u> A	olored either B	an uniform re	eddish brown <u>or</u>
dark grey.			C	
28. It is possible <u>to get</u> a sunbu A rays from the Sun <u>would</u> penetr C	В	because eig	hty percent o	of the ultraviolet
29. In 1964, GATT established	the International Tra	ade Center i	_	
countries in the <u>promotion</u> of <u>its</u>			Д	. В
30. Joseph Heller's novel <i>Catcl</i> modern <u>bureaucratic</u> institution D	Α	he <u>horrors</u> o B	f war <u>as well</u> C	as the power of
31. In <i>Roots</i> , Alex Haley uses <u>f</u>	<u>ictional</u> details to <u>er</u> A	n <u>bellish</u> a fa B	ctual <u>histories</u>	s of seven
generations of <u>his</u> family. D	^	D	Ü	
32. The <u>carbon atoms</u> of the dia A scratched with <u>other</u> diamond.	amond are <u>so stron</u> B	gly bonded t	hat a diamon	d can only be
33. <u>Viruses</u> are <u>extremely</u> tiny p A B theirs hosts. D		<u>ble</u> to reprod C	uce only with	in the cells of
34. <u>During</u> the last Ice Age, <u>whi</u>	_	,000 years a	go, there was	s about three
times more ice than is today. C D	,			
35. Melons most probably origin A continent during the sixteenth of D	В	were <u>introd</u> C		th American
36. More than 600 million indivi	dual <u>bacteria</u> <u>lives</u> (on the skin o	of <u>humans</u> .	

37. The more <u>directly</u> overh	ead the Moon is, the g	reat is the e	effect that it exhib	its on the
Earth.				
38. <u>As the</u> International Date	eline at 180 degrees lo	ongitude is o	crossed <u>westerly,</u> B	it becomes
necessary to change the da	te <u>by moving</u> it one da D	y forward.		
39. Kilauea's <u>numerous</u> eru A	ptions are generally co	omposed <u>in</u> B	molten lava, with	<u>little</u> escaping C
gas and few explosions.				
D				
40. The <u>incubation</u> period of A	f tetanus is usually five	e to ten day	s, and <u>the most</u> fr B	equently
occurred symptom is jaw sti	ffness.			
С	D			

SECTION THREE

READING COMPREHENSION Time - 55 minutes (including the reading of the directions for each part) Now set your clock for 55 minutes

This section is designed to measure your ability to read and understand short passages similar in topic and style to those that students are likely to encounter in North American universities and colleges. This section contains reading passages and questions about the passages.

<u>Directions</u>: In this section you will read several passages. Each one is followed by a number of questions about it. You are to choose the **one** best answer (A), (B), (C), or D, to each question. Then, on your answer sheet, find the number of the question and fill in the space that corresponds to the letter of the answer you have chosen.

Answer all the questions about the information in a passage on the basis of what is **stated** or **implied** in that passage.

Read the following passage:

John Quincy Adams, who served as the sixth president of the United States from 1825 to 1829, is today recognized for his masterful statesmanship and diplomacy. He dedicated his life to public service, both in the presidency and in the various other political offices that he Line held. Throughout his political career he demonstrated his unswerving belief in freedom of speech, the antislavery cause, and the right of Americans to be free from European and Asian domination.

Example I

To what did John Quincy Adams devote his life?

(A) Improving his personal life
(B) Serving the public

Sample Answer

C

C

D

(C) Increasing his fortune(D) Working on his private business

According to the passage, John Quincy Adams "dedicated his life to public service." Therefore, you should choose answer (B).

Example II

In line 4, the word "unswerving" is closest in meaning to

(A) moveable
(B) insignificant
(C) unchanging
(D) diplomatic

The passage states that John Quincy Adams demonstrated his unswerving belief "throughout his career." This implies that the belief did not change. Therefore, you should choose answer (C).

Ouestions 1–11

Harvard University, today recognized as part of the top echelon of the world's universities, came from very inauspicious and humble beginnings.

This oldest of American universities was founded in 1636, just sixteen years after the Pilgrims

Line landed at Plymouth. Included in the Puritan emigrants to the Massachusetts colony during this period were more than 100 graduates of England's prestigious Oxford and Cambridge universities, and these university graduates in the New World were determined that their sons would have the same educational opportunities that they themselves had had. Because of this support in the colony for an institution of higher learning, the General Court of Massachusetts appropriated 400 pounds for a college in October of 1636 and early the following year decided on a parcel of land for the school; this land was in an area called Newetowne, which was later renamed Cambridge after its English cousin and is the site of the present-day university.

When a young minister named John Harvard, who came from the neighboring town of Charlestowne, died from tuberculosis in 1638, he willed half of his estate of 1,700 pounds to the fledgling college. In spite of the fact that only half of the bequest was actually paid, the General Court named the college after the minister in appreciation for what he had done. The amount of the bequest may not have been large, particularly by today's standards, but it was more than the General Court had found it necessary to appropriate in order to open the college.

Henry Dunster was appointed the first president of Harvard in 1640, and it should be noted that in addition to serving as president, he was also the entire faculty, with an entering freshman class of four students. Although the staff did expand somewhat, for the first century of its existence the entire teaching staff consisted of the president and three or four tutors.

- 1. The main idea of this passage is that
 - (A) Harvard is one of the world's most prestigious universities
 - (B) what is today a great university started out
 - (C) John Harvard was key to the development of a great university
 - (D) Harvard University developed under the auspices of the General Court of Massachusetts
- 2. The passage indicates that Harvard is
 - (A) one of the oldest universities in the world
 - (B) the oldest university in the world
 - (C) one of the oldest universities in America
 - (D) the oldest university in America

- 3. It can be inferred from the passage that the Puritans who traveled to the Massachusetts colony were
 - (A) rather well educated
 - (B) rather rich
 - (C) rather supportive of the English government
 - (D) rather undemocratic
- 4. The pronoun "they" in line 7 refers to
 - (A) Oxford and Cambridge universities
 - (B) university graduates
 - (C) sons
 - (D) educational opportunities
- 5. The "pounds" in line 8 are probably
 - (A) types of books
 - (B) college students
 - (C) units of money
 - (D) school campuses

- 6. The "English cousin" in line 10 refers to a
 - (A) city
 - (B) relative
 - (C) person
 - (D) court
- 7. Which of the following is NOT mentioned about John Harvard?
 - (A) What he died of
 - (B) Where he came from
 - (C) Where he was buried
 - (D) How much he bequeathed to Harvard
- 8. The word "fledging" in line 14 could best be replaced by which of the following?
 - (A) Newborn
 - (B) Flying
 - (C) Winged
 - (D) Established
- 9. the passage implies that
 - (A) Henry Dunster was an ineffective president

- (B) someone else really served as president of Harvard before Henry Dunster
- (C) Henry Dunster spent much of his time as president managing the Harvard faculty
- (D) the position of president of Harvard was not merely an administrative position in the early years
- 10. The word "somewhat" in line 20 could best be replaced by
 - (A) back and forth
 - (B) to and fro
 - (C) side by side
 - (D) more or less
- 11. Where in the passage does it indicate how much money Minister Harvard was really responsible for giving to the university?
 - (A) lines 3-7
 - (B) Lines 7-11
 - (C) Lines 12-15
 - (D) Lines 15-17

Questions 12-21

A binary star is actually a pair of stars that are held together by the force of gravity. Although occasionally the individual stars that compose a binary star can be distinguished, they generally appear as one star. The gravitational pull between the individual stars of a binary star causes one to Line orbit around the other. From the orbital pattern of a binary, the mass of its stars can be determined: (5) the gravitational pull of a star is in direct proportion to its mass, and the strength of the gravitational force of one star on another determines the orbital pattern of the binary.

Scientists have discovered stars that seem to orbit around an empty space. It has been suggested that such a star and the empty space really composed a binary star. The empty space is known as a "black hole," a star with such strong gravitational force that no light is able to get through. Although

- the existence of black holes has not been proven, the theory of their existence has been around for (10)about two centuries, since the French mathematician Pierre Simon de Laplace first proposed the concept at the end of the eighteenth century. Scientific interest in this theory has been intense in the last few decades. However, currently the theory is unproven. Black holes can only be potentially identified based on the interactions of objects around them, as happens when a potential black hole is
- part of a binary star; they, of course, cannot be seen because of the inability of any light to escape the star's powerful gravity.
- 12. A binary star could best be described as
 - (A) stars that have been forced apart
 - (B) a star with a strong gravitational force
 - (C) two stars pulled together by gravity
 - (D) a large number of attached stars
- 13. The word "distinguished in line 2 is closest in meaning to
 - (A) renowned
 - (B) tied
 - (C) celebrated
 - (D) differentiated
- 14. According to the passage, what happens as a result of the gravitational force between the stars?
 - (A) One star circles the other
 - (B) The mass of the binary star increases
 - (C) A black hole is destroyed
 - (D) The gravitational force decreases
- 15. The word "proportion" in line 5 is closest in meaning to which of the following?
 - (A) contrast
 - (B) Ratio

- (C) Inversion
- (D) Force
- 16. A "black hole" in line 9 is
 - (A) an empty space around which nothing orbits
 - (B) a star with close to zero gravity
 - (C) a star whose gravitational force blocks the passage of light
 - (D) an empty space so far away that no light can reach it
- 17. Which of the following statements about black holes is NOT supported by the passage
 - (A) A black hole can have a star orbiting around it
 - (B) A binary star can be composed of a black hole and a visible star
 - (C) All empty space contains black holes
 - (D) The gravitational pull of a black hole is strong
- 18. The word "get" in line 9 could best be replaced by
 - (A) pass
 - (B) sink
 - (C) jump
 - (D) see

Questions 22–30

Clara Barton is well known for her endeavors as a nurse on the battlefield during the Civil War and for her role in founding the American Red Cross. She is perhaps not as well known, however, for her role in establishing a bureau for tracing missing soldiers following the Civil War.

Line (5) At the close of the Civil War, the United States did not have in place any agency responsible for accounting for what had happened to the innumerable men who had served in the military during the war, and many families had no idea as to the fate of their loved ones. Families were forced to agonize endlessly over where their loved ones were, what kind of shape they were in, whether or not they would return, and what had happened to them.

(10)

Clara Barton developed a system for using print media to publish the names of soldiers known to have been wounded or killed during various battles of the Civil War. She was prepared to publish names that she herself had gathered on the battlefield as well as information gathered from others. She made numerous unsuccessful attempts to interest various government officials in her plan. However, it was not until Henry Wilson, a senator from the state of Massachusetts, took up her cause and presented her plan to President Lincoln that her plan was implemented.

(15)

(20)

With Lincoln's assistance, Clara Barton was set up in a small government office with funding for a few clerks and the authority to examine military records. She and her clerks gathered and compiled information from military records and battlefield witnesses and published it in newspapers and magazines. Clara Barton operated this missing persons bureau for four years, from the end of the war in 1865 until 1869. During this period, she and her staff put out more than 100,000 printed lists, answered more than 60,000 letters, and accounted for more than 20,000 missing soldiers.

- 22. The purpose of this passage is
 - (A) to praise Clara Barton's work as a battlefield nurse
 - (B) to outline clara Barton's role in establishing the american Red Cross
 - (C) to malign the role of the U.S. government at the end of the civil War
 - (D) to present one of Clara Barton's lesser-known accomplishments
- 23. Which of the following is NOT mentioned as one of Clara Barton's accomplishments?
 - (A) That she treated wounded Civil War soldiers
 - (B) That she was integral to the establishment of the american Red Cross
 - (C) That she served as an elected government official
 - (D) That she continued to work for the good of soldiers and their families after the Civil War

- 24. The word "close" in line 4 could best be replaced by
 - (A) near
 - (B) battle
 - (C) end
 - (D) shut
- 25. What is stated in the passage about the issue of missing persons following the Civil War?
 - (A) The U.S. government was not officially prepared to deal with the issue
 - (B) President Lincoln did not recognize that there was an issue
 - (C) One U.S. government agency was responsible for the issue
 - (D) U.S. citizens were unaware of the issue

- 26. It can be inferred from the passage that the budget for Barton's missing persons agency was
 - (A) quite lavish
 - (B) open-ended
 - (C) limited in scope
 - (D) from private sources
- 27. The pronoun "it" in line 17 refers to
 - (A) funding
 - (B) authority
 - (C) information
 - (D) bureau
- 28. Which of the following did Clara Barton and her staff accomplish, according to the passage?
 - (A) They searched military records
 - (B) They responded to 100,000 letters
 - (C) They printed a list with 100,000 names
 - (D) They talked with 20,000 missing soldiers
- 29. Where in the passage does the author indicate the duration of the existence of Clara Barton's missing persons agency?
 - (A) Lines 4-6
 - (B) Lines 9-10
 - (C) Lines 15-16
 - (D) Lines 18-19
- 30. Which paragraph describes Clara Barton's efforts to establish a missing persons bureau?
 - (A) The first paragraph
 - (B) The second paragraph
 - (C) The third paragraph
 - (D) The last paragraph

Questions 31–40

Line (5)

(10)

(15)

Mutualism is a type of symbiosis that occurs when two unlike organisms live together in a state that is mutually beneficial. It can exist between two animals, between two plants, or between a plant and an animal. Mutualism is unlike the symbiotic state of commensalism in that commensalism is a one-sided state in which a host gives and a guest takes, while in mutualism both partners live on a give-and-take basis.

In the African wilds, the zebra and the ostrich enjoy a symbiotic relationship that enhances the ability of each of these large land animals to survive. Both serve as prey for the lion, and neither has the capability alone to withstand an attack from this fierce hunter. However, when the zebra and the ostrich collaborate in their defense by alerting each other to possible danger from an approaching predator, the lion is rarely able to capture more than the oldest or feeblest of the herd.

The complementary physical strengths and weaknesses of the ostrich and the zebra allow them to work in coordination to avoid succumbing to the lion. The ostrich, the largest flightless bird in the world, possesses great speed and keen eyesight, which enable it to spot large predatory animals long before they are able to position themselves to attack. The zebra, with a running speed equal to that of the ostrich, has excellent hearing and a good sense of smell but lacks the sharp eyesight of the ostrich. When ostriches and zebras intermix for grazing, each animal benefits from the ability of the other to detect approaching danger. If either animal senses danger, both animals are alerted and take off. With the running speed that both of these animals possess, they are able to outrun any predator

31. How is the information in the passage organized?

except the cheetah.

- (A) A concept is explained through an extended example
- (B) A series of chronological events is presented
- (C) Two examples are compared and contrasted
- (D) Two opposing theories are explained
- 32. The word "unlike" in line 1 is closes in meaning to
 - (A) unfriendly
 - (B) dissimilar
 - (C) potential
 - (D) hated

- 33. The word "beneficial" in line 2 is closest in meaning to
 - (A) distinctive
 - (B) meaningful
 - (C) helpful
 - (D) understood
- 34. What is "commensalism" in line 3?
 - (A) A specific kind of mutualistic relationship
 - (B) A relationship that is beneficial to both partners
 - (C) A relationship in which both partners are
 - (D) A relationship that is beneficial to only one partner
- 35. What is implied in the passage about the zebra and the ostrich?
 - (A) They have a commensalist relationship
 - (B) The lion is prey for both of them
 - (C) They share a mutualistic relationship
 - (D) Their relationship is not symbiotic.

- 36. What is stated in the passage about the lion?
 - (A) It is easily able to capture zebras and ostriches
 - (B) It is usually able to catch only weaker zebras and ostriches
 - (C) It never hunts zebras and ostriches
 - (D) It does not hurt old or feeble zebras and ostriches.
- 37. The word "collaborate" in line 9 is closest in meaning to
 - (A) work together
 - (B) make observations
 - (C) make a stand
 - (D) run and hide
- 38. The pronoun "it" in line 13 refers to
 - (A) ostrich
 - (B) world
 - (C) speed
 - (D) eyesight
- 39. Which of the following is NOT stated in the passage?
 - (A) the ostrich is unable to fly
 - (B) The ostrich is able to see better than the zebra
 - (C) The zebra hears and smells well
 - (D) The zebra is able to run faster than the ostrich
- 40. Where in the passage does the author mention the one animal that is faster than both the ostrich and the zebra?
 - (A) Lines 8-10
 - (B) Lines 12-14
 - (C) Lines 14-15
 - (D) Lines 18-19.

Questions 41-50

Esperanto is what is called a planned, or artificial, language. It was created more than a century ago by Polish eye doctor Ludwik Lazar Zamenhof. Zamenhof believed that a common language would help to alleviate some of the misunderstandings among cultures.

Line (5) In Zamenhof's first attempt at a universal language, he tried to create a language that was as uncomplicated as possible. This first language included words such as *ab*, *ac*, *ba*, *eb*, *be*, and *ce*. This did not result in a workable language in that these monosyllabic words, though short, were not easy to understand or to retain.

Next, Zamenhof tried a different way of constructing a simplified language. He made the words in his language sound like words that people already knew, but he simplified the grammar tremendously. One example of how he simplified the language can be seen in the suffixes: all nouns in this language end in o, as in the noun amiko, which means "friend," and all adjectives end in -a, as in the adjective bela, which means "pretty." Another example of the simplified language can be seen in the prefix mal-, which makes a word opposite in meaning; the word malamiko therefore means "enemy," and the word malbela therefore means "ugly" in Zamenhof's language.

In 1887, Zamenhof wrote a description of this language and published it. He used a pen name, Dr. Esperanto, when signing the book. He selected the name Esperanto because this word means "a person who hopes" in his language. Esperanto clubs began popping up throughout Europe, and by 1905, Esperanto had spread from Europe to America and Asia.

In 1905, the First World Congress of Esperanto took place in France, with approximately 700 attendees from 20 different countries. Congresses were held annually for nine years, and 4,000 attendees were registered for the Tenth World Esperanto Congress scheduled for 1914, when World War I erupted and forced its cancellation.

Esperanto has had its ups and downs in the period since World War I. Today, years after it was introduced, it is estimated that perhaps a quarter of a million people are fluent in it. This may seem like a large number, but it is really quite small when compared with the billion English speakers and billion Mandarin Chinese speakers in today's world. Current advocates would like to see its use grow considerably and are taking steps to try to make this happen.

- 41. the topic of this passage is
 - (A) a language developed in the last few years
 - (B) one man's efforts to create a universal language
 - (C) how language can be improved
 - (D) using language to communicate internationally
- 42. According to the passage, Zamenhof wanted to create a universal language
 - (A) to resolve cultural differences
 - (B) to provide a more complex language
 - (C) to build a name for himself
 - (D) to create one world culture

- 43. It can be inferred from the passage that the Esperanto word *malespera* means
 - (A) hopelessness
 - (B) hope
 - (C) hopeless
 - (D) hopeful
- 44. The expression "popping up" in line 17 could best be replaced by
 - (A) leaping
 - (B) shouting
 - (C) hiding
 - (D) opening

- 45. It can be inferred from the passage that the Third World congress of Esperanto took place
 - (A) in 1905
 - (B) in 1907
 - (C) in 1909
 - (D) in 1913
- 46. According to the passage, what happened to the Tenth World Esperanto Congress?
 - (A) It had 4,000 attendees
 - (B) It was scheduled for 1915
 - (C) It had attendees from 20 countries
 - (D) It never took place
- 47. The expression "ups and downs" in line 23 is closest in meaning to
 - (A) tops and bottoms
 - (B) floors and ceilings
 - (C) takeoffs and landings
 - (D) highs and lows
- 48. Which paragraph describes the predecessor to Espreanto?
 - (A) The first paragraph
 - (B) The second paragraph
 - (C) The third paragraph
 - (D) The fourth paragraph
- 49. This passage would most likely be assigned reading in a course on
 - (A) European history
 - (B) English grammar
 - (C) world government
 - (D) applied linguistics
- 50. The paragraph following the passage most likely discusses
 - (A) how current supporters of Esperanto are encouraging its growth
 - (B) another of Zamenhof's accomplishments
 - (C) the disadvantages of using an artificial language
 - (D) attempts to reconvene the World Congress of Esperanto in the 1920s