医学部医学科英語入試問題

下記の注意事項をよく読んで解答してください。

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- 1. 配付された問題冊子および解答用マークシート (受験番号のマークの仕方)
 - に、それぞれ受験番号(4桁)ならびに氏名を記入 し、解答用マークシートの受験番号欄に自分の番 号を正しくマークしてください。
- 2. マークには必ずHBの鉛筆を使用し、濃く正しく マークしてください。

記入マーク例:良い例 ●

悪い例 Ø 🐧 Ø 🔾

- 3. マークを訂正する場合は、消しゴムで完全に消してください。
- 4. 所定の記入欄以外には何も記入しないでください。
- 5. 解答用マークシートを折り曲げたり、汚したりしないでください。
- 6.「止め」の合図があったら、問題冊子の上に解答用 マークシートを重ねて置いてください。

受	験	番	号
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受験番号	氏	名	·	

♦M3(794-62)

[I] 次の(A), (B), (C)の英文は Lessons from Chernobyl for Japan という見出しの新
聞記事です。記事は(A)→(B)→(C)の順に書かれています。(A), (B), (C)それぞれの英
文を読み,後に続く設問にもっとも適する答えを選びなさい。
(A)
CHERNOBYL, Ukraine — Twelve times a month — the maximum number of
shifts the doctors will allow — Sergei A. Krasikov takes a train across the no
man's land and reports for work at a structure enclosing Reactor No. 4 known
as "the sarcophagus."
is to pump out radioactive liquid that has collected
inside the burned-out reactor. This happens whenever it rains. The
sarcophagus was built 25 years ago in a panic, as radiation streamed into
populated areas after an explosion at the reactor, and now it is riddled with $\frac{1}{3}$
cracks.
Water cannot be allowed to touch the thing that is deep inside the reactor:
about 200 tons of melted nuclear fuel and debris, which burned through the
floor and hardened, in one spot, into the shape of an elephant's foot.
that scientists cannot approach it. But years ago, when they
managed to place measurement instruments nearby, they got readings of
10,000 rem per hour, which is 2,000 times the yearly limit recommended for
workers in the nuclear industry.
Mr. Krasikov, who has broad shoulders and a clear, blue-eyed gaze, has been
baby-sitting this monster for eight years. He'll stay until he is pensioned off
and then leave his job to another man, who will stay until he is pensioned off.
how long this will continue, Mr. Krasikov shrugged.

"A hundred years?" he ventured. "Maybe in that time they will invent
something."
The death of a nuclear reactor has a beginning; the world is watching this
unfold now on the coast of Japan. But it doesn't have
some radioactive elements in nuclear fuel decay quickly, cesium's
half-life is 30 years and strontium's is 29 years. Scientists estimate that it
takes 10 to 13 half-lives before life and economic activity can return to an area.
That means that the contaminated area — designated by Ukraine's Parliament
as 15,000 square miles, around the size of Switzerland — will be affected for
more than years. All last week, workers frantically tried to cool
the six reactors at the Fukushima Daiichi plant 140 miles north of Tokyo. But
one had to look at Ukraine to understand the sheer tedium and exhaustion of
dealing with the aftermath of a meltdown. It is a problem that does not exist
on a human time frame.
Volodymyr P. Udovychenko drove to Ukraine's Parliament-building on
Tuesday, in a shiny purple shirt and tie. He is the mayor of
Slavutých, which is home to most of the 3, 400 workers who are still employed
at the Chernobyl Atomic Energy Station. Most of them have not received their
full salaries since January, and the mayor was requesting \$3.6 million-to pay
them. "The leadership turns away from this, they think that Chernobyl doesn't
exist," he said. "Chernobyl exist. And those 200 tons — they also
exist."
သည်။ မြေသည် မြေသည်။ ကို မြေသည် မြေသည် မြေသည်။ မြေသည် မြေသည် မြေသည် မြေသည်။ မြေသည် မြေသည်။

.a) (ne pooi
b) t	the field
c) t	he mountain
d) t	he coffin
2. Wł	nich phrase goes in blank (2)?
	Among his tasks
	With his tasks
4.4.4.	n his tasks
	At his tasks
	The transfer of the control of the second of the control of the co
3 W1	nich does pronoun (3) refer to?
	he burned-out reactor
1 .	he sarcophagus
	p <mark>anic</mark> The control of the control o
d) r	adiation
4. Wh	ich of the following goes in blank (4)?
a) T	his remains mass so highly radioactive
b) T	his radioactive mass remains so highly
c) T	his remains radioactive mass so highly
d) T	his mass remains so highly radioactive
5. Und	lerlined part (5) is closest in meaning to
a) h	e buys a small house
b) h	e moves into a summer house
c) h	e retires
	e pays off his debt
	the world the transfer of the

♦M3(794—65)

1. Phrase (1) is closest in meaning to

11. Which word or phrase is most appropriate for blank (II)?	
a) to dress	
b) dressing	
c) dressed	
d) to have dressed	
12. Which of the following goes in blank (12)?	
a) do	
b) does	
c) do not	
d) does not	
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♦M3(794—67)

(B)
To visit Chernobyl today is to feel time passing.
, a little over a mile from the plant, where
50,000 people were given a few hours to evacuate, wallpaper has slipped down under its own weight and paint has peeled away from apartment walls in fa
curls. Ice glazes the interiors. On a residential street, where Soviet housing
blocks tower in every direction, it is quiet enough to hear the sound o
individual leaves brushing against branches.
Anton Yukhimenko, who leads tours of the dead zone, said that wild boars and foxes had begun to take shelter in the abandoned city, and once, skirting a forest, he noticed a woll soundlessly loping along beside him. supporting structures finally rotted out by 25 winters and summers.
"This is a city that has been captured by wilderness," he said. "I think in 20 years it will be one big forest."
but a photographer and I made the journey last week with Chernobylinterinform, a division of Ukraine's Emergency
Ministry. At the checkpoint leading to the exclusion zone, there is a small
statue of the Virgin Mary and a placard listing the amounts of cesium and

strontium found in mushrooms, fish and wild game. 22

- 13. Which of the following goes in blank (13)?
 - a) Not long ago, one of the city's major buildings, School No. 1, came crashing down
 - b) The wild world is gradually pressing its way in
 - c) The public is not allowed within 18 miles of Reactor No. 4
 - d) In Pripyat, the plant workers' former bedroom community

14. Word (14) is closest in meaning to

- a) move out
- b) come back
- c) go forward
- d) stav

15. Underlined part (15) is closest in meaning to

- a) Blocks of apartment houses built in Soviet times stand high all around.
- b) There is a tower with groups of apartment buildings from Soviet times around it.
- c) There is a Soviet housing tower with blocks of apartments around it.
- d) You can see the building of the housing office from Soviet times stand high.

16. Which of the following goes in blank (16)?

- a) Not long ago, one of the city's major buildings, School No. 1, came crashing down
- b) The wild world is gradually pressing its way in
- c) The public is not allowed within 18 miles of Reactor No. 4
- d) In Pripyat, the plant workers' former bedroom community

- 17. What does phrase (I7) mean in this context?
 - a) It is an area where any living thing will instantly die.
 - b) It is an area where no living things are expected to be found.
 - c) It is the area where people are dying.
 - d) It is the area where dead people are buried.
- 18. Which word is most appropriate for blank (18)?
 - a) before
 - b) like
 - c) as
 - d) that
- 19. Which of the following goes in blank (19)?
 - a) Not long ago, one of the city's major buildings, School No. 1, came crashing down
 - b) The wild world is gradually pressing its way in
 - c) The public is not allowed within 18 miles of Reactor No. 4
 - d) In Pripyat, the plant workers' former bedroom community
- 20. Which of the following goes in blank (20)?
 - a) Not long ago, one of the city's major buildings, School No. 1, came crashing down
 - b) The wild world is gradually pressing its way in
 - c) The public is not allowed within 18 miles of Reactor No. 4
 - d) In Pripyat, the plant workers' former bedroom community

- 21. What does phrase (21) mean?
 - a) the area with some cesium and strontium
 - b) the area where only Christians live
 - c) the area with a sign warning of radiation
 - d) the area that ordinary people are not allowed to enter
- 22. Phrase (22) is closest in meaning to
 - a) wild grass
 - b) wild insects
 - c) wild animals
 - d) wild flowers

(C)
At the six-mile radius begins the zone of resettlement. A stand of
scorched-looking trees marks the so-called Red Forest, after the color of dead
pines that were bulldozed en masse and buried in trenches. As we approached
the plant, the guides' radiation detector suddenly registered 1,500 microrem —
50 times normal, they said, perhaps because we had been caught by a gust of
wind.
At the center of it all is the sarcophagus, its sides uneven and streaked with
rust.
the early 1990s, Ukrainian officials have been working on a plan to
replace it, finally launching a project called the New Safe Confinement, a 300-
foot steel arch that will enclose and seal off the reactor for the next 100 years.
Its cost is estimated at \$1.4 billion, to be paid largely by donor nations. The
project, originally scheduled to be finished in 2005, has been beset by delays
and financing shortfalls.
, the winter's snows are turning to rain, and rainwater leaking into
the reactor could have unpredictable results, said Stephan G. Robinson, a
nuclear physicist who works for Green Cross Switzerland, an environmental
organization.
"In winter, it will freeze," said Dr. Robinson, who was touring the site last
week. "Water expands, and it breaks. Then maybe some of the inside
collapses. A little cloud disappears through a crack. If there's rain, it means
there is a way in. And if there is a way in, there is also a way out."
and the state of t
But even after the new arch is built, Mr. Krasikov that it will be $-10 - $ 00 00 00

possible to end the long <u>vigil</u> over Reactor No. 4.
"Nobody knows to do with is inside," he said. "There will be enough work for my children and my grandchildren."
By evening, on our way out of the site, light is tilting through the pine forests, a peaceful enough scene except for the vivid yellow-and-orange triangles planted in the forest floor, warning of radiation. Workers stream out through a wall of man-sized Geiger counters, each one waiting for the machine to thunk and flash green making his or her way out of the exclusion zone and down the battered highway.
Tomorrow, they will come back to Chernobyl Atomic Energy Station for day of work.
23. Which word is most appropriate for blank @3/?
a) questionable
b) correlative
c) mandatory
d) emotional
24. Which sentence contains the same use of 'after' as (24)?
a) The police are <u>after</u> the murderer.
b) He ran <u>after</u> her with the book.
c) Not long after that he resigned.
d) Shannon was named <u>after</u> her grandmother.
the contract of the second of the contract of

25.	W	'hat	does 1	ronoun	(25)	refer	to?
a)	the	zone				
b)	t he	Red F	orest			

- c) the guides' radiation detector
- d) a gust of wind
- 26. Which word is most appropriate for blank 26?
 - a) In
 - b) During
 - c) For
 - d) Since
- 27. Word (27) is closest in meaning to
 - a) managed
 - b) unfledged
 - c) troubled
 - d) conducted
- 28. Which phrase is most appropriate for blank (28)?
 - a) On the contrary
 - b) In the meantime
 - c) As a whole
 - d) In particular
- 29. Which sentence contains the same use of 'could' as (29)?
 - a) I could hear what they were saying very clearly.
 - b) Could you lend me a hand?
 - c) Mary said that I could use her phone.
 - d) The question could be difficult for students.

— 12 —

♦M3(794-74)

;	30. Which word is most appropriate for blank 60?
	a) suspects
	b) doubts
	c) thinks
	d) supposes
;	31. Word (3) is closest in meaning to
	a) warning
	b) survey
	c) watch
	d) analysis
	· · · · · · · · · · · · · · · · · · ·
3	22. Which word is most appropriate for blank G2?
	a) what
	b) that
	c) who
	d) which
3	3. Which word is most appropriate for blank 33?
	a) what
	b) that
	c) who
	d) which
3	4. Which word is most appropriate for blank (34)?
	a) after
	b.) before
	c) if
	d) because
1	$-13 - \Diamond M3(794-75)$

- 35. Which of the following goes in blank 35?
 - a) another and we describe to the end of

 $\label{eq:continuous} \varphi_{ij}(y_{ij},y_{ij}$

- b) other
- c) some
- d) some other

- [**I**] 36~40 の英文のそれぞれについて、誤りを含んだ下線部の記号をマークしなさい。
 - 36. Many people are concerned about the detrimental affects of too much cholesterol on their health, but, in fact, cholesterol is essential for bodily function.
 - 37. According to recently discovered archeological evidence, the migration of early hominids across the European and Asian landmasses may have taken longer it was previously thought.
 - 38. One of the common complaints heard about healthcare providers is that they lack to complaints heard about healthcare providers is that they lack to complaints heard about healthcare providers is that they lack to complaints heard about healthcare providers is that they lack to complaints heard about healthcare providers is that they lack to complaints heard about healthcare providers is that they lack to complaints heard about healthcare providers is that they lack to complaints heard about healthcare providers is that they lack to complaints heard about healthcare providers is that they lack to complaints heard about healthcare providers is that they lack to complaints heard about healthcare providers is that they lack to complaints heard about healthcare providers is that they lack to complaints heard they are trying to cure.
 - 39. Just as Meiji Japan absorbed a lot of knowledge from the West, too did to Western countries receive a lot of influence from Japan during the same period.
 - 40. While the company's president claimed that he was not responsible for the accident, he could not say for certainty who was to blame.

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〔Ⅲ〕 41~45までの英文を完成させるために	こ、下線部に	入る最も適し	レた語句をa∼
d の中から一つずつ選びなさい。	1000		i e legaleta elem NSS
and the state of		r in the second	en esta esta esta esta esta
41. Cyanosis is a condition characterize	d by a bluish	. 1000	of the skin.
a. facade			
b. vividness		· + 1.5 · 4.	1. 22.1
c. dysfunction		· · · · · · · · ·	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
d. discoloration	t	tive in the	
(1,2,3) , which is the second of the seco		, e di e	a to the second
42. Obstructive lung diseases are the	ourth leading		in the United
States.	. 1.14.	* *	
a. source for death	e e u e e e e e	the period	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
b. reason of dying			
c. cause of death	e pre i ser i speliker	eji e e e e	Access of the second
	$x=(y^*)/d$		\$ 14 miles
We define the formula of the section $\mathcal{A}^{(k)}(\mathbf{x})$	in the National Association		
43. People who suffer from this conditi			·•
a. many circumstantial pitfalls	•	g seg status	
b. a wide range of symptoms	4.		A Company
c . serious priorities of disorders			
d. multiple cases of fluctuations	111		Control of the Mills
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		* 2.	
44. You must be careful when taking	this medicine	because it	will make you
feel	and the stages.		
a. light headed			a a 15
b. muddled up			
c. heavy minded			
d. clear sighted	Month of the	100000000000000000000000000000000000000	garage stages
16 (14) (14) (15) (16) (16) (16) (16) (16) (16) (16) (16			♦M3 (794—78)

45. An asthma attack can be _____ a variety of factors.

- a. caused with
- b. caught by
- c. made out of
- d. brought on by

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♦M3 (794—79)

[IV] 次の英文を読み、後に続く設問46~60にもっとも適する答えを選びなさい。

Fibromyalgia is described as inflammation of the fibrous or connective tissue of the body. Widespread muscle pain, fatigue, and multiple tender points characterize these conditions. Fibromyalgia is more common than previously thought, with as many as 3-6 % of the population affected by the disorder. Fibromyalgia is more prevalent in adults than children, with more women affected than men, particularly women of childbearing age.

The exact cause of fibromyalgia is not known. Sometimes it occurs in several members of a family, suggesting that it may be an inherited disorder. People with fibromyalgia are most likely to complain of three primary symptoms: muscle and joint pain, stiffness, and fatigue. Pain is the major symptom with aches, tenderness, and stiffness of multiple muscles, joints, and soft tissues. The pain also tends to move from one part of the body to another. It is most common in the neck, shoulders, chest, arms, legs, hips, and back. Although the pain is present most of the time, and may last for years, the severity of the pain changes and is dependent on individual patient perception.

Symptoms of fatigue may result from the individual's chronic pain coupled with anxiety about the problem and how to find relief. The inflammatory process also produces chemicals that are known to cause fatigue. Other common symptoms are tension headaches, difficulty swallowing, recurrent abdominal pain, diarrhea, and numbness or tingling of the extremities. Stress, anxiety, depression, or lack of sleep can increase symptoms. Intensity of symptoms is variable, ranging from gradual improvement to episodes of recurrent symptoms.

Diagnosis is difficult and frequently missed because symptoms of fibromyalgia are vague and generalized. Coexisting nerve and muscle disorders such as rheumatoid arthritis, spinal arthritis, or Lyme disease may

further complicate the diagnostic process. Presently, there are no tests available to specifically diagnose fibromyalgia. The diagnosis is usually made after ruling out other medical conditions with similar symptoms and using criteria physicians and researchers have defined.

In 1990, the American College of Rheumatology developed standards for fibromyalgia that health care practitioners can use to diagnose this condition. According to these standards, a person is thought to have fibromyalgia if he or she has widespread pain in combination with tenderness in at least 11 of the 18 sites known as trigger points. Trigger point sites include the base of the neck, along the backbone, in front of the hip and elbow, and at the rear of the knee and shoulder.

There is no known cure for fibromyalgia. Therefore, the goal of treatment is successful symptom management. Treatment usually requires a combination of therapies, exercise, proper rest, and diet. A patient's clear understanding of his or her role in the recovery process is **imperative** for successful management of this condition. In 2004, a study **demonstrated** that a drug called paroxeteine HCI (Paxil CR) in controlled release tablet form significantly reduced symptoms in fibromyalgia patients. As of spring 2004, there were no FDA-approved treatments for fibromyalgia.

- 46. The word "tender" on line 2 is closest in meaning to
 - a. vulnerable
 - b. yielding
 - c. gentle
 - d. sensitive

	47. The word "severity" on line 15 is closest in meaning to
	a. intensity
	b. danger
	c , heaviness
	d. length of time
	48. The word "perception" on line 16 is closest in meaning to
	a. appreciation
	b. impression
	c. pain the second of the control of
	d. background
	49. The phrase "coupled with" on line 18 is closest in meaning to
	a. accompanied by the second of the second o
	b. unified to well as the second of the seco
•	c. formed from
	d. transformed into
	50. The word "vague" on line 26 is closest in meaning to
	a. precise
	b. painful -
	c. indistinct
	d. explicit
	production of the second of th
	51. The phrase "ruling out" on line 30 is closest in meaning to
	a. measuring
	b. diagnosing
	c. treating
	d. eliminating
,	→ 20 — • • • • • • • • • • • • • • • • • •

b. u	rent
	nmediate
d, cı	
53. The	word "demonstrated" on line 43 is closest in meaning to
4.	chibited
b. pr	resented
c. sł	a. nowed
d. di	splayed
r a salar	September 1997 and the
54. Acc	ording to the text, fibromyalgia is
a, di	agnosed more often than before
b. no	ot very common
c. qu	ite common recently
d. m	ore widespread than before
	A Bright Committee of the Committee of t
55. Acco	ording to the text, which group is the most susceptible to fibromyalgia?
	ale adults
b. fe	male adults
c. ma	ale children
d fei	male children
, 1	the Mariana and Artist and Compared the Compared
56. Wha	t is suspected as a cause of fibromyalgia?
a. It	might be genetic.
b. It	could be caused by Lyme disease.
c It	might be caused by severe muscle pain.
C. II	and the second of second massic pains

- 57. What is NOT mentioned as a symptom of fibromyalgia?
 - a, neck pain
 - b. fatigue
 - c. lack of sleep
 - d. trouble swallowing
- 58. What other ailments can often increase the intensity of fibromyalgia's symptoms?
 - a. arthritis
 - b. Lyme disease
 - c. diarrhea
 - d. depression $\mathbb{R}^{n_{\mathrm{total}}}$ is the second constant of the second constant of
- 59. Why is the diagnosis of fibromyalgia difficult?
 - a. The symptoms are often intermittent.
 - b. The possibility of other diseases has to be excluded first.
 - c. The patient must exhibit at least 11 symptoms.
 - d. The patient usually has other disorders at the same time.
- 60. The next paragraph in this article will probably discuss
 - a. causes of fibromyalgia
 - b. diagnosis of fibromyalgia
 - c. specific treatments of fibromyalgia
 - d. symptoms of fibromyalgia

An antibody that recognizes all strains of influenza A could be a universal vaccine blueprint. Scientists have found an antibody that inactivates all influenza A subtypes. The antibody-binding site, tucked away in a stable region of the virus, might form the first lasting vaccine against flu.

The influenza virus constantly mutates, forcing scientists to play catch-up and produce a new seasonal vaccine each year. But Antonio Lanzavecchia, an author on the new study, says that observing the human immune response to influenza convinced him that it would be possible to design a vaccine that prevails over mutation.

"During the 2009 H1N1 pandemic, we found some people with antibodies to multiple viral subtypes," says Lanzavecchia. Antibodies, which are produced by white blood cells called B cells, bind to specific target sites, inactivating viruses or flagging them for destruction by other immune cells.

To test the cross-reactivity of influenza antibodies, the team screened B cells from eight human donors who had been infected with or immunized against different influenza strains. They took the B cells early in the immune response, when the repertoire of antibodies they secrete is at its most diverse.

After looking at 104, 000 B cells, they hit the jackpot. "Our Fl6 antibody is the first one ever found that reacts to all 16 of the influenza A subtypes," says Lanzavecchia.

The finding follows other reports of broadly reactive influenza antibodies, but these could only bind to either group 1 viruses, such as the H1N1 swine flu' and the avian influenza H5N1, or group 2 viruses, which include the seasonal H3N2 strains.

"Finding antibodies to all strains of one group was exciting," says immunologist Patrick Wilson from the University of Chicago, "but getting one to both groups is stunning."

The antibody itself is not a vaccine, but it could be an instruction manual for making one. The scientists say that a small protein **mimicking** the part of the virus bound by the FI6 antibody might cajole the immune system into making similarly cross-reactive antibodies.

To zero in on the binding site, Lanzavecchia's team used X-ray crystallography. Their structure shows that the FI6 antibody binds to the stem region of influenza's haemagglutinin protein. Most influenza antibodies bind to the more accessible head region of haemagglutinin.

Because much of the head region is not essential for viral function, it can mutate—allowing the virus to evade immune attack. By contrast, the stem region has a structure that is easily disrupted by mutations, so needs to stay stable.

"The stem is so well conserved between influenza subtypes that I would expect there to be high selective pressure against mutation in this area," says Wilson. He says there is a real chance a vaccine based on the haemagglutinin stem could work in humans. Previous work has shown that mice immunized with a small stem protein were protected against multiple influenza strains.

61. The word "stable" on line 3 is closest in meaning to

i iki igiti iyada i kaya addina kija ili kaya iliya ili iliya

- a. unchanging
- b. vulnerable
- c. established
- d. accessible
- 62. The term "prevails over" on line 9 is closest in meaning to
 - a. covers
 - b. is absorbed by
- c. responds to
 - d. overcomes

- 24 -

♦M3(794—86)

63. The word "flagging" on line 13 probably means
a. planting
b. marking
C. damaging
d. binding
The state of the s
64. The word "secrete" on line 17 is closest in meaning to
a. eliminate
b. multiply
c. discharge
d. consume
and the second of the second o
65. The word "mimicking" on line 29 is closest in meaning to
a. imitating
b. bothering
c. attacking
d. countering
and the state of t
66. The term "zero in on" on line 32 is closest in meaning to
a. focus on
b. reduce from
c. attach to
d. subtract from
67. The word "accessible" on line 35 is closest in meaning to
a. influenced
b. vulnerable
c. influential
d. reachable
— 25 — ♦ ♦ M3(794—87)

68. The word "evade" on line 37 is closest i	n meaning to
a. disrupt	
b. avoid	
c. nőtice	
d. protect	
and an area to the first experience of	

- 69. The term "this area" on line 41 probably refers to
 - a. the stem region
 - b. the head region
 - c. the antibodies
 - d. the binding sites
- 70. Why did Antonio Lanzavecchia first believe that it would be possible to make a lasting vaccine against the flu virus?
 - a. He discovered that viruses constantly mutate.
 - b. He saw that some people lacked an immune response.

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- c. He noticed that some people had antibodies that protected against several strains of the virus.
- d. He screened eight subjects who had produced cross-reactive antibodies.
- 71. Why did the scientists test B cells early in the immune response phase?
 - a. B cells produce the strongest antibodies early in the immune response.
 - b. B cells produced later in the immune response will not react to enough virus subgroups to be useful.
 - c. Most human donors produce B cells only at the beginning of the immune response phase. The transfer of the response o
- d. B cells early in the immune response produce the greatest variety of antibodies. The company of the property of the company of the comp and a conjugation of the control of

- 72. How is the new FI6 antibody different from previous antibodies?
 - a. It attaches to both group 1 and group 2 flu viruses.
 - b. It can combine virus groups 1 and 2 together.
 - c. It is the first antibody that affects H3N2 flu strains.
 - d. It is the first time that scientists were able to find all strains of viruses together.
- 73. How might the FI6 antibody be useful for combating the flu virus?
 - a. Scientists can use the FI6 antibody to create more haemagglutinin proteins.
 - b. It can help scientists make a vaccine based on the binding site of the flu virus.
 - c. The FI6 antibody can be used as a vaccine.
 - d. The FI6 antibody zeroes in on the binding site and activates the virus.
- 74. How does the FI6 antibody attach to the flu virus?
 - a. It attaches to the stem of the haemagglutinin protein.
 - b. It attaches to the head of the haemagglutinin protein.
 - c. It connects to both the head and the stem regions of the haemagglutinin protein.
 - d. It binds to the flu virus while it is mutating.
- 75. Why doesn't the stem region of the flu virus mutate?
 - a. It conserves itself against influenza antibodies.
 - b. It is not accessible enough for mutations to occur.
 - c. It will be damaged if it mutates.

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d. It is not essential for viral function.