平成20年度 入学者選抜試験問題

一般入学試験

英 語 (70分)

| 注意事項

- 1 試験開始の合図があるまで、この問題冊子の中を見てはいけません。
- 2 この問題冊子は17ページあります。ただし出題ページは下記のとおりです。 4~17ページ
- 3 試験中に問題冊子の印刷不鮮明、ページの落丁・乱丁および解答用紙の汚れ等に気づいた場合は、手を挙げて監督員に知らせなさい。
- 4 解答用紙には解答欄以外に次の記入欄があるので、その説明と解答用紙の「記入上の注意」を読み、それぞれ正しく記入し、マークしなさい。
- ① 受験番号欄 受験番号を記入し、さらにその下のマーク欄にマークしなさい。正しくマー クされていない場合は、採点できないことがあります。
- ② 氏名欄 氏名・フリガナを記入しなさい。
- 5 試験開始後30分間および試験終了前5分間は退出できません。
- 6 この表紙の受験番号欄に受験番号を記入しなさい。この問題冊子は試験終了後 回収します。

|| 解答上の注意

1 解答はすべて解答用紙の所定の欄へのマークによって行います。たとえば、 3 と表示のある問いに対して②と解答する場合は、次の〈例〉のように解答 番号3の解答欄の②をマークします。

〈例〉

解答			1	解	2	\$	欄			
番号	1	2	3	4	5	6	7_	8	9_	0
3	1	0	3	4	(5)	6	(1)	8	9	0



SKR07R001

As Fadida's hair began to disappear, she worried that her boyfriend would leave her. For the first month she cried constantly. Today, living with supportive parents, she no longer dates her boyfriend and (1) remains wary of others' reactions. "I put makeup on, but I still look like an ill person," she says. "When people see me, they think automatically that I have cancer."

Recently, geneticists (2) have started closing in on clues that might lead to treatments for Fadida's disease. Their efforts are part of a larger push to study more than 300 known genetic hair disorders, which range from rare diseases detected in a few dozen families to male-pattern baldness, which affects hundreds of millions. What all these diseases likely share is a disruption somewhere in the complicated growth cycle of the *hair follicle.

As Fadida spoke, one scientist in the group listened with particular interest. Angela Christiano, a *molecular geneticist, knew exactly what the young Israeli was feeling. Diagnosed in 1996 with *alopecia areata, the geneticist lost 10 large clumps from her own hair before symptoms finally abated. Since then, Christiano has solved the genetic code of three hair diseases. Now she wants to pin down the *mutations that caused Fadida's hair loss, and in doing so, figure out what caused her own.

Christiano was at her favorite salon when the beautician casually mentioned a small bald spot. Doctors diagnosed the problem as alopecia areata, a genetically determined disease in which the body's T cells identify hair-follicle cells as foreign invaders and try to destroy them. Doctors told Christiano the only treatment was to undergo a series of painful shots in her scalp to blunt the immune-cell attack. Over the next year and a half, she developed nine more bald spots. As soon as hair in one injected patch began growing back—as colorless as rice noodles at first—(3)another would appear.

Christiano lived with perpetual fear: "You wake up every morning and before you lift your head off the pillow, you think, 'Is it all there? Is it gone?' And

then you get angry at yourself for being so (4). You think, 'I just spent five years working on lethal skin diseases. I should count my blessings that this is all I have.' And that doesn't work." The answer, she decided, was to (5) throw herself into figuring out what was happening to her.

As she learned more, she was surprised that so little was known about (6) a condition that plagues 5 million Americans. What genes are responsible for normal hair, she wondered. And what at the molecular level causes those cycles to go wrong?

Because alopecia areata was believed to result (7) more than one altered gene, Christiano knew it would be difficult to understand. The completion of the Human Genome Project was almost a decade away. Instead, she decided to seek out a simpler form of the disease, one regulated by a single gene. She knew what to look for: a family in which a large number of people had extreme hair loss but whose other members had perfectly normal hair.

Less than two weeks after her alopecia was diagnosed, Christiano read a clinical report about a family. Many of its babies were born with hair, but they soon lost it, even their eyelashes. The problem did not appear to be related to more complex skin disorders: Their teeth were fine. Their nails were fine. They sweated normally. "It was exactly what we were looking for," she says.

Christiano sent a letter to researchers in Pakistan. Five months later, 30 blood samples arrived, followed by a Pakistani researcher who remained at the New York laboratory for two years. Christiano and her team chose several of the samples, analyzed the DNA, then (8) the bald patients with relatives with normal growth. She identified a region on *chromosome 8 where the affected family members had distinctly different genes.

Shortly afterward, Christiano attended a lecture where she heard about a mouse with a mutation on a *recessive gene nicknamed hairless. Because mice and humans share many of the same genes, Christiano's lab was able to isolate the human (9) of the hairless gene. To everyone's delight, it was located

on chromosome 8. Then the team compared the DNA sequence of an affected patient with that of a healthy control. Sure enough, the hairless gene from the bald Pakistani family contained a mutation.

Still, by identifying the human hairless gene as an important master switch in regulating cell death in a hair follicle—a discovery that could lead to gene therapies for unwanted hair growth—Christiano emerged as a new star in the field.

When Christiano switched to hair research from skin blisters, some of her colleagues wondered if her research had turned trivial. "Hair?" she remembers their asking. "How could you go from working on this life-threatening thing to hair?" But as the news of her research spread, Christiano was 100 deluged with correspondence from people suffering from all sorts of hair abnormalities. Some wrote that they never left their homes. Others had considered suicide.

(11) A psychologist has found that women prize so much their hair that most students surveyed during a classroom exercise (7 their heads 1 would not 7 even \$1 million 1 shave 1 for 1 said 1 they). "It wasn't until those letters started pouring in that I realized that, even though people didn't die from this disease, a part of their soul died," Christiano says.

Unlike a disease such as *hypertension, which follows a similar course in most sufferers, hair diseases come in many types. And while the most common disorders involve the absence of hair, some people grow too much. Christiano turned to a rare condition called *hypertrichosis, whose sufferers are sometimes called wolf people. Instead of growing normal facial hair, they develop thick, *pigmented scalp hair called terminal hair all over their faces. (12) unusual is their appearance that some people with hypertrichosis work as circus performers. The syndrome has different causes, but it can be inherited in families, and Christiano suspects it involves a single gene. Christiano took blood samples. She has not the time of the secret to hypertrichosis could lead to gene therapies not just for people with too much hair but also for some of those with too little.

Christiano's desire to connect with her research (14) subjects brought her to Jerusalem last June. Hadassah University Medical Center claims the world's largest collection of patients with genetic hair diseases. It also has many patients with alopecia, the disease that triggered Christiano's own hair loss and which remains unsolved.

When Christiano arrived at the clinic that Friday morning, the waiting room was already filling with the patients whose DNA she knew intimately. For the next five hours, the conference room was a buzz of activity. Patients came and were examined. Most who were bald covered their heads with wigs or kerchiefs; their embarrassment was (15) palpable. Questions and answers were translated into Hebrew, Arabic, and English.

Researchers took blood samples and skin biopsies and sketched out *family pedigrees on scrap paper. Patients with *alopecia universalis were given steroid shots in their eyebrows in hopes of *revving up hair growth. As a doctor injected a 14-year-old Israeli girl, Christiano watched and *winced with her. "It (16) so many memories," she said.

"In Arabic, there's a saying: If there's a crisis, sometimes it benefits other people," the Palestinian physician said. He reflected on the international effort fueled by Christiano's own disease — an effort that has brought scientists closer than ever before to finding the genetic basis of alopecia areata and its more extreme variants. "Maybe," he said, "it's a good thing you had this problem."

(注) hair follicle 「毛包(毛根を包んでいる組織)」 molecular geneticist 「分子遺伝学者」 alopecia areata 「円形脱毛症」 mutation 「突然変異」 chromosome 「染色体」 recessive gene 「劣性遺伝子」 hypertension 「高血圧症」 hypertrichosis 「多毛症」 pigmented 「着色した」 family pedigrees 「家系図」 alopecia universalis 「全身性脱毛症」 rev up 「活性化させる」 wince 「びくっとする」

間1 下級	泉部(1)の具体的な意味として最も適切なものを①~④の中か	ら1つ選びマー
クしな	はさい。 1	
(1) <u>re</u>	mains wary of others' reactions	
1	continues to worry about how she looks	
2	stays home so that others won't hurt her feelings	
3	doesn't believe other people like her appearance	
4	still wonders how people feel about her appearance	
間2 下約	泉部(2)の具体的な意味として最も適切なものを①~④の中か	ら1つ選びマー
クしな	えさい。 2	
(2) <u>ha</u>	we started closing in on	
1	are about to discover	
② -	are still lacking	
3	have given up hope of finding	`.
4	have just begun looking for	
問3 下統	^{湶部(3)} の後に省略されているものとして最も適切なものを(j)~(4) の中から 1
つ選び	ダマークしなさい。 3	
① b	pald spot ② painful shot	
· (3) i	mmune cell (4) hair	
問 4 空流	所(4)に補うものとして最も適切なものを()~(d)の中々	から1つ選びマー
クした	なさい。 4	
① s	ead (2) impatient (3) vain (4)	lazy

間5、下級部(5)の意味に取り近いも	のを用~何の計からエス	速ひマーグしなさい。
5		
() give up		,
nave trouble		
3 take turns		•
(f) concentrate on		
間6 下線部(6)と言い換えることの	できるものを(() ~(() の中	から1つ選びマークしな
さい。 6	-	
① a social problem		
② a disease		
3 a gene		
an agreement		`.
問7 空所(7)に補うものとし	て最も適切なものを(() 〜	④ の中から1つ選びマー
クしなさい。 <mark> 7</mark> :		
① of ② in	3 to	(4) from
問8 空所(8)に補うものとし	て最も適切なものを() ~	④の中から1つ選びマー
クしなさい。 8		e Say
() compared (2) chose	3 detected	(4) identified
		·
問9 空所(9)に補うものとし	て最も適切なものを() ~	④の中から1つ選びマー
クしなさい。 9		
クレなさい。 9 ① equivalent ② kind	③ symptom	(d) characteristic
	3 symptom	(1) characteristic
(1) equivalent (2) kind		
① equivalent ② kind 問10 下線部(0)と言い換えることのさい。 10		から1つ選びマークしな ·
① equivalent ② kind 問10 下線部(0)と言い換えることのさい。 10	できるものを() 〜(4) の中	から1つ選びマークしな ·

;	列を(1) ~(4)の)中から1	つ選びマー	クしなさい	Po 1	1			
(ĵ) /—エ—	-キア-	カーオーウ	•					
(② カーキー	-イエ	アーオーウ						
(3 オーアー	-イ―エー	ウーキーカ						
(_ 動 エーアー	ーキーカー	オーイーウ					•	
問12	空所(12)に補う	ものとして	最も適切な	よものを	·(1) ~(4)	の中が	から1つ選び	ゾマー
:	クしなさい。	12					-	•	
() Not	2	So .	3	As		4	Such	
88	and this depth A. A.	- 14 >							
問13	下線部(13)と	:言い換え コ	ることので	きるものを	E(I) ~(4)	の中か	ら1:	つ選びマーク	クしな
	さい。 <u>13</u>			•	_				
() proved	2	given	(3)	invest	igated	(4)	found	
問14	下納部的	音味レー	て最も適切	たものをほ) ~(A) \(\sigma\)	ነተታልል	1 ~ 3	温がっつこ カー	・カキ
	1 AR BIQUES	SONC U	(取 6) 题 90	a ovel) - () •	· 中 ゆ- り	1 -7 12	RO ()	ン' '
		າວ ນຸດເາ ສ	re talking	ahout in	a disci	ເຂຣາດກ		•	
			ledge that						
			dependent	_	_		re		
			the object	_		•			
	y a porson	1 WIIO 13	one object	or cillic	ai suuu	y			
問15	下線部(15)と	言い換え	ることので	きるものを	≿(Î) ~(Ā)	の中か	515	O選びマーク	うしな
	¥٧٠. 15				- 0 0	,		,,	
() obvious		avoided	. 3	invisil	ole	(4)	fading	
							-		

問11 下線部印の()内の語句を意味が通るように並べかえるとき、最も適切な配

問16 空所(16)に補うものとして最も適切なものを①~④の中から1つ選びマークしなさい。 16

(i) gives in

(2) carries out

3 takes place

(4) brings back

間17 本文の内容に一致するものを①~②の中から4つ選びマークしなさい。

17 ~ 20

- () Fadida lost her hair after undergoing therapies against cancer.
- Only one type of genetic hair disease involves a disruption in the growth cycle of the hair follicle.
- 3 After her own devastating experience, Christiano started on a mission to find a cure for hair loss.
- (4) Fadida has been suffering from a lethal skin disease for five years.
- (5) Christiano has not yet solved the cause of her own hair loss.
- 6 Finding the hairless gene from the bald Pakistani family provided the answer to 300 other known genetic hair disorders.
- (f) When Christiano changed her research field, she received full support from her colleagues.
- (8) Christiano found that genetic mutations on chromosome 8 in mice were related to human hair loss.
- When Christiano started her research on alopecia, little was known about its underlying causes.

2 つぎの英文を読み、空所を補うのに最も適切な語(句)を()~(4)の中から1つずつ選 びマークしなさい。

The relationship between teacher and student and 21 between slave owner and slave are both based on the superiority of the one over the other. The interests of teacher and pupil lie in the 22 direction. The teacher is satisfied if he succeeds in furthering the pupil; if he has failed to do so, the failure is his and the pupil's. The slave owner, 23, wants to exploit the slave as much as possible; the more he gets out of him, the more he is satisfied. At the same time, the slave seeks to 24 as best as he can his claims for a minimum of happiness. These interests are definitely antagonistic, as what is of 25 to the one is disadvantageous to the other. The superiority has a different function in both cases: in the first, it is the condition for the helping of the person subjected to the authority; in the second, it is the condition for his 26.

The dynamics of authority in these two types are different too: the more the student learns, the less wide is the gap between him and the teacher. He becomes more and more like the 27 himself. In other words, the authority relationship tends to dissolve itself. But when the superiority serves as a basis for 26, the distance becomes intensified through its long duration.

The 28 situation is different in each of these authority situations. In the first, elements of love, admiration, or gratitude are prevalent. The authority is at the same time an example with which one wants to identify one's self partially or totally. In the second situation, resentment or hostility will arise against the exploiter, subordination to whom is 29 one's own interests. But often, as in the case of a slave, his hatred would only lead to conflicts which would subject the slave to suffering without a chance of winning. Therefore, the tendency will usually be to repress the feeling of hatred and sometimes even to 30 it by a feeling of blind admiration.

This has two functions: (1) to remove the painful and dangerous feeling of hatred, and (2) to soften the feeling of humiliation.

21	1	those who)	that	3	the one	4	which
22	1	right (2)	opposite	3	every	(4)	same
23	1	as well			2	on the other	r ha	ınd
	3	as a result			4	for example	9	
24	1	defend (2)	ignore	3	minimize	.(4)	question
25	1	concern (2)	use	3	moment	(4)	advantage
26	1	survival (2)	reason	3	helping	4	exploitation
27	1	teacher			2	pupil		
	3	slave owner			4	slave		
28	1	conditional			2	psychologic	al	
	3	physical			4	surroundin	g	
29	1	against (2)	of	3 ·	to	(4)	for
30	1	show (2		replace	3	cause	4	emphasize

③ 日本文の意味になるように () 内の語句を正しく並べかえ、4番目と7番目に
来る番号をマークしなさい。ただし、文頭にくる単語も書き出しは小文字となってい
ಹಿಂ
(1) 愛する人を失った経験のある人はだれでも、その悲しみがいかに深いものである
かを知っている。
4番目 31 7番目 32
(() has experienced (2) any one (3) knows (4) how deep
(5) the loss of (6) can be (7) the grief (8) a loved one (9) who).
(2) 彼が私を助けに来なかったら、あのとき私の命は絶たれてしまっていただろう。
4番目 33 7番目 34
(1) come 2 had 3 my life 4 would 5 to 6 ended then
have (1) my rescue (9) he not).
(3) 情熱があれば知識や経験の不足を補うことができると言われている。
(3) 情熱があれば知識や経験の不足を補うことができると言われている。 4番目 35 7番目 36
4番目 35 7番目 36
4番目 35 7番目 36 (① enthusiasm ② make ③ it is ④ for ⑤ can ⑥ said that ① up ⑧ the lack of ⑨ knowledge and experience).
4番目 35 7番目 36 (① enthusiasm ② make ③ it is ④ for ⑤ can ⑥ said that
4番目 35 7番目 36 (① enthusiasm ② make ③ it is ④ for ⑤ can ⑥ said that ① up ⑧ the lack of ⑨ knowledge and experience). (4) いくつかの研究によって、低血圧は長寿につながることが示されている。 4番目 37 7番目 38
4番目 35 7番目 36 (① enthusiasm ② make ③ it is ④ for ⑤ can ⑥ said that ① up ⑧ the lack of ⑨ knowledge and experience). (4) いくつかの研究によって、低血圧は長寿につながることが示されている。
4番目 35 7番目 36 (① enthusiasm ② make ③ it is ④ for ⑤ can ⑥ said that ① up ⑧ the lack of ⑨ knowledge and experience). (4) いくつかの研究によって、低血圧は長寿につながることが示されている。 4番目 37 7番目 38
4番目 35 7番目 36 (① enthusiasm ② make ③ it is ④ for ⑤ can ⑥ said that ① up ⑧ the lack of ⑨ knowledge and experience). (4) いくつかの研究によって、低血圧は長寿につながることが示されている。 4番目 37 7番目 38 (① is ② suggest ③ blood pressure ④ longevity ⑤ that ⑥ linked ⑦ low ⑧ to ⑨ several investigations).
4番目 35 7番目 36 (① enthusiasm ② make ③ it is ④ for ⑤ can ⑥ said that ① up ⑥ the lack of ⑨ knowledge and experience). (4) いくつかの研究によって、低血圧は長寿につながることが示されている。 4番目 37 7番目 38 (① is ② suggest ③ blood pressure ④ longevity ⑤ that ⑥ linked ⑦ low ⑥ to ⑨ several investigations).
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4番目 35 7番目 36 (① enthusiasm ② make ③ it is ④ for ⑤ can ⑥ said that ① up ⑧ the lack of ⑨ knowledge and experience). (4) いくつかの研究によって、低血圧は長寿につながることが示されている。 4番目 37 7番目 38 (① is ② suggest ③ blood pressure ④ longevity ⑤ that ⑥ linked ⑦ low ⑧ to ⑨ several investigations). (5) 多くの女性が無理なダイエットから慢性的なカルシウム不足に陥る危険性がある。 4番目 39 7番目 40 (① a chronic deficiency ② are ③ many women ④ extreme diets
4番目 35 7番目 36 (① enthusiasm ② make ③ it is ④ for ⑤ can ⑥ said that ① up ⑧ the lack of ⑨ knowledge and experience). (4) いくつかの研究によって、低血圧は長寿につながることが示されている。 4番目 37 7番目 38 (① is ② suggest ③ blood pressure ④ longevity ⑤ that ⑥ linked ⑦ low ⑥ to ⑨ several investigations). (5) 多くの女性が無理なダイエットから慢性的なカルシウム不足に陥る危険性がある。 4番目 39 7番目 40

4番目 41 7番目 42
((): it (2) ask (3) occur (4) doing there (5) to (6) to Jane
(7) didn't (8) what (9) he was).
(7) その少年は彼女の首に腕を回したまま眠ってしまった。
4番目 43 7番目 44
(() the boy (2) arms (3) her (4) asleep (5) with (6) neck
① around ⑧ fell ⑨ his).
(8) 彼の発言は彼の親友に対する裏切り行為に他ならない。
4番目 45 7番目 46
(() but (2) his remarks (3) betrayal (4) of (5) are (6) a
(7) nothing (8) bosom friend (9) his).
() Hothing () boson interest ()
の、マーフははは日本はでアナロによれられてのを転がった
(9) その子どもは医者に舌圧子を口に入れられるのを怖がった。
4番目 47 7番目 48
(1) his mouth 2 was 3 a tongue depressor 4 the doctor
(5) in (6) afraid (7) putting (8) of (9) the child).
(10) 砂糖入りの炭酸飲料水を1日1缶減らすだけで,体重を1ヶ月に1ポンド減らす
のに十分な効果がある。
4番目 49 7番目 50
(1) a month 2 a day 3 to 4 sugared soda 5 help you
(6) is enough (7) lose one pound (8) cutting out (9) just one can of).
(a) is emorgin (b) rose one horning (c) committee (c) 1000 and on

(6) ジェーンは彼がそこで何をしているのか聞くことは思いつかなかった。

4	日本)	文の意味に合う	ようし	ح 51	~ 60	【に入れる	のに最も	適切な語 (句	刃)を,
そ	れぞれ	れ下の(()~(()) か	ら選び	ドマーク	しなさい。			-	
(1)		立つ情報に加え 51 from h urants. Far			は市内のレン the book al		ins a gui		
(2)	· ~)	パーミントは腹	痛を消	台療する	のに用いられ	いてきた古	デくからあ る	る薬草であ	გ₀ [.]
	Per	ppermint is a	n ag	e-old h	erbal medi	cine that	has been	n used to	treat
	abdoı	minal 52				•		-	
	(1)	woes	2	awes	3	hues	4	haps	•
(3)	In	きているうちに the course of very stressfu troubles	a li	fetime,		_	od that y		erience
(4)	· · 木*	交の創立10周年	記今:	コンサー	トが来温水服	翌日に 関う	れる。	•	
(*)		xt Tuesday, a						niversarv	of the
		ding of our so						,	
	(1)	owing to			(2)	in hono	r of .	-	
	(3)	on behalf of	•		(<u>4</u>)		purpose (of	
	W				V	- '	1		
(5)	70	の収容所での拷	間の列	浅酷さは	筆舌に尽く	しがたい。	•		
	The	e cruelty of t	he to	rture in	n the camp	is 55	descrip	tion.	
	1	without	2	off	3	in	4	beyond	

(6)	その女	(性はとても控	えめ	で、話しかり	すられな	:い限り語	さない。	
	The la	ady is very (quiet	and doesn	't speal	k unless	56 .	
	(j) sp	ooken to			2	she is n	ot spoken	
	(3) sl	ne speaks			4	never sp	oeaking	
(7)	彼は巻	と人犯の逮捕に	つな	がる情報に	200万円	までの報	健金をかけ つ	ている。
	He is	offering a	57	of up to	2 millio	on yen f	or informa	tion leading to
t	he arro	est of the ki	ller.					
	① g	ratitude	2	money	3	price	4	reward
					•			
(8)	皆様の	ご多幸とご健	康を	お祈りしま	す。			
	58	you all b	e ha	ppy and w	ell.			
	() F	ortunately	2	If only	3	May	(4)	Suppose
(9)	彼らは	はお互いに道を	譲る	ためにゆっ	くり運転	ました。		
	They	drove slowly	r to	59 for	each o	other.		
	() r	nake way	2	put ahead	3	lead in	. 🐠	come in
(10)	運動か	『健康を増進さ	せる	ことを示す	証拠がた	こくさんあ	5る。	
	There	is abundan	t evi	dence that	exercis	e can	60 your	health.
	(j) a	ggravate	2	support	3	add	(4)	enhance
					•			