

解答はすべて解答用紙にマークしなさい。

〔I〕 次の 1 ～ 12 の英文の () に入る最も適切な語句を、それぞれ下の①～④から一つずつ選びなさい。

1 Even though there is evidence of certain self-medication behaviors in animals, so far it () observed that animals treat their wounds with healing plants.
① will never be ② was never ③ has never been ④ had never been

2 Shellfish growers in New Zealand do not need to feed their shellfish, because the coastal waters there are very rich () phytoplankton.
① at ② for ③ in ④ to

3 () some or all of the Sun's rays from reaching the Earth, a solar eclipse occurs when the Moon moves between the Earth and the Sun.
① Block ② Blocking ③ Blocked ④ To be blocking

4 The American Heart Association's ideal daily sodium limit is 1,500 milligrams for most adults, especially () with high blood pressure.
① it ② this ③ these ④ those

5 According to research, one in () six to seven people aged 65 or older will have some health problems.
① every ② each ③ either ④ other

6 The risk of cancer increases with age because we accumulate defects in our DNA and genome () sometimes cause gene problems that can lead to cancer.
① which ② whose ③ why ④ what

- 7 A method has been discovered to treat water heavily () with PFAS, or harmful forever chemicals.
① contaminate ② contaminated ③ contaminating ④ to contaminate
- 8 Video games had relatively little appeal in the early 1970s, () that all changed when gaming took a massive leap forward near the end of the decade.
① but ② since ③ or ④ after
- 9 Engineers are developing technologies that have the potential () fossil fuels and biomass into electricity without emitting carbon dioxide into the atmosphere.
① convert ② converts ③ converting ④ to convert
- 10 Whether in health care, sport, or a manufacturing industry, 3D printing allows 100% customized products to () quickly and precisely.
① make ② be making ③ be made ④ have made
- 11 The Ministry of the Environment said that greenhouse gas emissions reported during the one-year period ending in March 2023 () to the equivalent of 1.135 billion tons of carbon dioxide.
① amounts ② amounted ③ amounting ④ to amount
- 12 According to a paper published in 2019, a great number of deaths () prevented had some bacterial infections been less resistant to drugs.
① were ② had been ③ would be ④ could have been

〔II〕 次の（１）～（５）の日本語の意味を表すように英文を作った場合、13 ～ 27 に入る最も適切な語を、それぞれ下の①～⑦から一つずつ選びなさい。なお、文頭に入る語も小文字で示してある。

- （１）再生可能エネルギーの施設が劇的に増加しつつあるため、それをどのように鳥や他の野生生物にとって安全なものにするかという問題は、より差し迫ったものとなっている。

As renewable energy infrastructure is increasing dramatically, the question
13 14 15 birds and other wildlife is growing more urgent.

① safe ② make ③ for ④ to ⑤ how ⑥ it ⑦ of

- （２）科学者の推測では、地球の生命を脅かすほどの大きな隕石衝突は、数百万年に一度起こるとされている。

Scientists estimate that an asteroid 16 17 18
Earth likely occurs once every few million years.

① to ② large ③ on ④ collision ⑤ threaten ⑥ enough ⑦ life

- （３）ソーシャルメディアの隆盛によって動画やコメントをインターネット上に投稿することが可能になり、自由な言論がどこまで許されるのかについて激しい論争を巻き起こしている。

The rise of social media has allowed people to post videos and written comments online, which has sparked intense 19 20 21
go.

① free ② debate ③ far ④ can ⑤ how ⑥ speech ⑦ over

- （４）政府の声明文は、2030年代前半までに、二酸化炭素の排出を削減するための対策を持たない石炭火力発電所の段階的な廃止を求めている。

The government's statement calls for the phasing out of coal-fired 22
 23 24 CO₂ emissions by the first half of the 2030s.

① plants ② reduce ③ that ④ to ⑤ measures ⑥ power ⑦ lack

- （５）プラスチックに起因する海洋汚染が世界的な関心事となり、日本では海水中で自然分解する画期的なプラスチックを作り出すことで、問題解決すべく研究が進められている。

 25 26 27 a global concern, research is underway in Japan to solve the problem by creating innovative plastic that breaks down in seawater.

① becoming ② caused ③ marine ④ plastics ⑤ by ⑥ pollution ⑦ with

〔III〕 次の 28 ～ 32 が自然な会話になるように、() に入る最も適切なものを、それぞれ下の①～④から一つずつ選びなさい。

28

A: Excuse me. I am interested in getting a library card.

B: Sure, let me give you an application form. You can fill it out right here at the counter.

A: Great. Thank you.

B: Are you familiar with our rules and fines?

A: ()

- ① Yes, I'm fine with my family.
- ② Yes, I read your brochure.
- ③ No, I'm not sure how to make rules.
- ④ No, I don't think you can follow.

29

A: I think I may try to start eating a little better.

B: I changed my diet recently, too. I eat a lot more healthily now.

A: ()

B: My diet consists mainly of fruits, vegetables, and chicken.

A: That's it?

B: Pretty much.

- | | |
|----------------------------|-------------------------------|
| ① How do you like my diet? | ② What do you eat these days? |
| ③ What makes you overeat? | ④ How come you changed it? |

30

A: I hear you've taken up a new hobby, bread making. Is that right?

B: Yes! I really enjoy doing it on weekends.

A: How did you get into that?

B: Oh, I love bread, so I wanted to eat it fresh from the oven.

A: Is it difficult to make?

B: () In fact, it's almost like going to the gym!

- ① Choosing ingredients is the most difficult part.
- ② Tasting is the most enjoyable moment in the process.
- ③ Baking is actually very easy with an oven.
- ④ Shaping bread dough is actually quite tiring.

31

A: Congratulations on your new job! How did you get it?

B: I saw the advertisement on the internet and applied.

A: How did the interview go? Were you nervous?

B: Yeah, I was pretty nervous. But I managed to get the job!

A: When do you start?

B: ()

A: That's great. Good luck with everything!

B: Thank you!

① Well, I started yesterday, actually.

② They started the business in 1985.

③ I need to have one more interview.

④ We haven't agreed on the date yet.

32

A: Hi, what are you up to?

B: I'm looking for accommodation for my trip to London next month.

A: Nice. What websites are you using?

B: This one is called hotelsinlondon.com. I just enter the dates and the area I want to stay in, and it gives me a list of available hotels and their prices.

A: Have you found anywhere that you like?

B: Well, not really. ()

① I don't have to wait for the suggestions from the site.

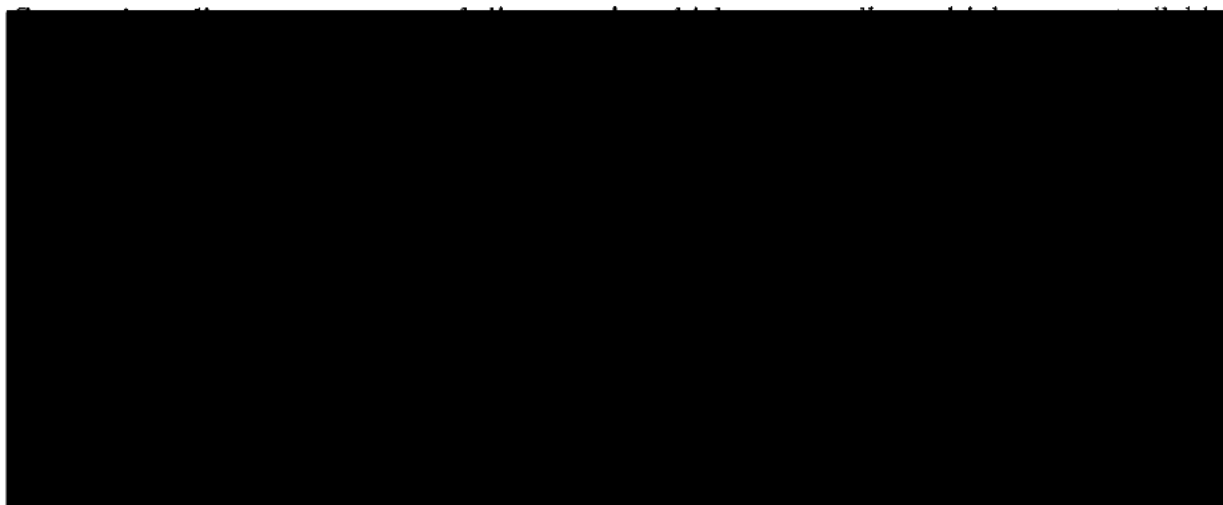
② We have found some hotels that meet our requests.

③ They are all either too expensive or too far away.

④ You often misunderstand information you get online.

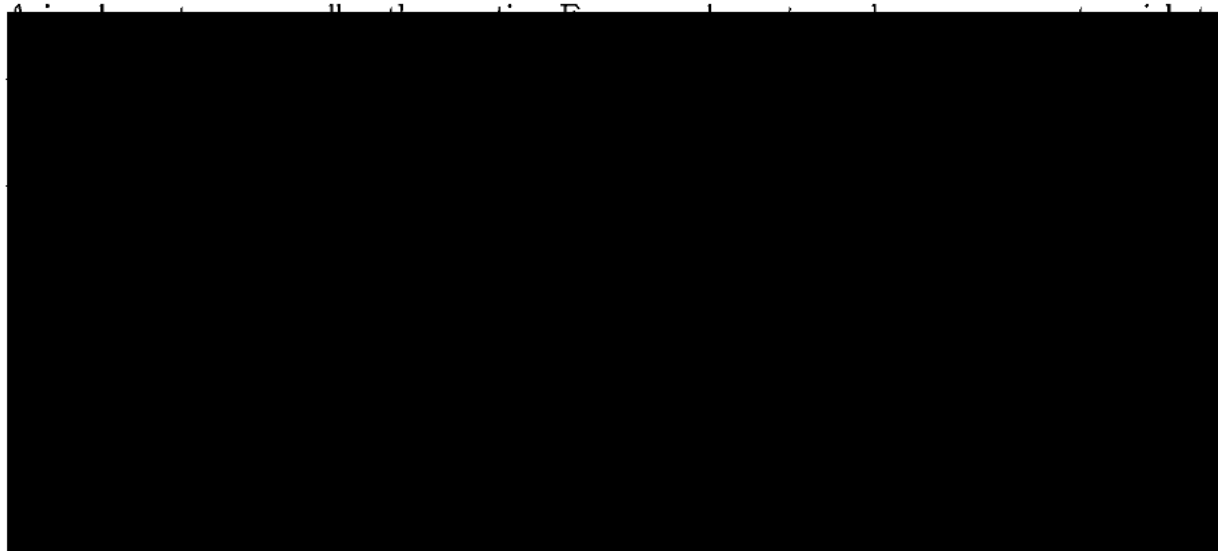
※一部問題につきましては、著作物の二次利用許諾が得られていないため非公開とさせていただきます

〔IV〕 次の英文中の 33 に入る最も適切なものを下の ①～④ から一つ選びなさい。



- ① It wouldn't survive if it didn't,
- ② It spreads to make bad luck,
- ③ It causes changes around it,
- ④ It gets nutrients when attacked,

〔V〕 下の英文 34 が入る最も適切な位置を ①～④ から一つ選びなさい。



34

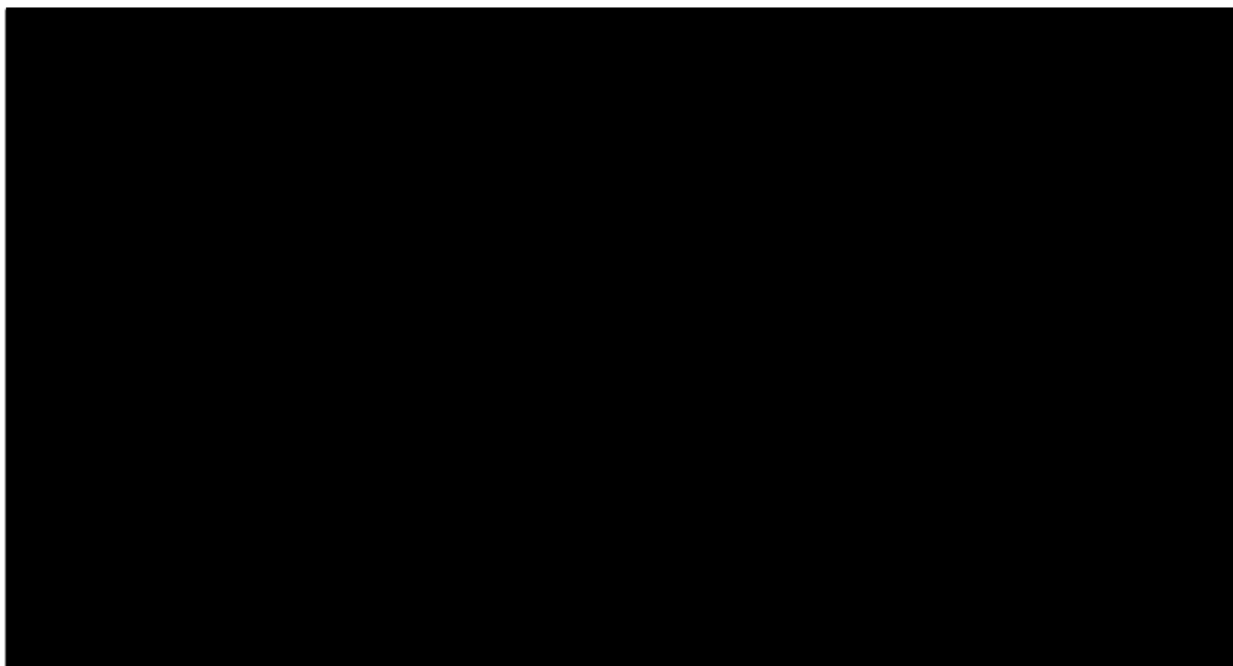
But the organization may be losing the fight to stop the species settling.

〔VI〕 次の英文中の 35 ～ 38 に、下の英文 ① ～ ④ を入れ、適切な文章にきなさい。

Plants have evolved a variety of ways to survive in dry conditions. For example, some plants have thick, fleshy leaves that store water. Others have small, waxy leaves that reduce water loss. Some plants have deep roots that reach down to water tables. And some plants have the ability to close their leaves to prevent water from evaporating. A gene editing tool called CRISPR-Cas9 has been used to modify plants to make them more drought-tolerant. Scientists have found that plants with certain genes can survive longer periods of drought. By using CRISPR-Cas9, scientists can edit these genes to make plants more resilient to dry conditions. This could be a game-changer for agriculture in arid regions. However, there are concerns about the safety and ethics of genetic engineering. Some people worry that edited plants could cross-breed with wild relatives, potentially disrupting ecosystems. Others worry about the impact on biodiversity. Despite these concerns, many scientists believe that gene editing offers a promising way to develop crops that can thrive in a changing climate. Further research is needed to understand the long-term effects of these edits and to address the ethical concerns. It's a delicate balance between innovation and caution.

- ① Rastogi decided to get rid of the genes that stopped the processes from turning on.
- ② It might also close the tiny holes in its leaves to hold onto what water it does have.
- ③ In a drought, for instance, a plant may make its roots longer in search of more water.
- ④ Most of the time, these growth-promoting processes are turned off.

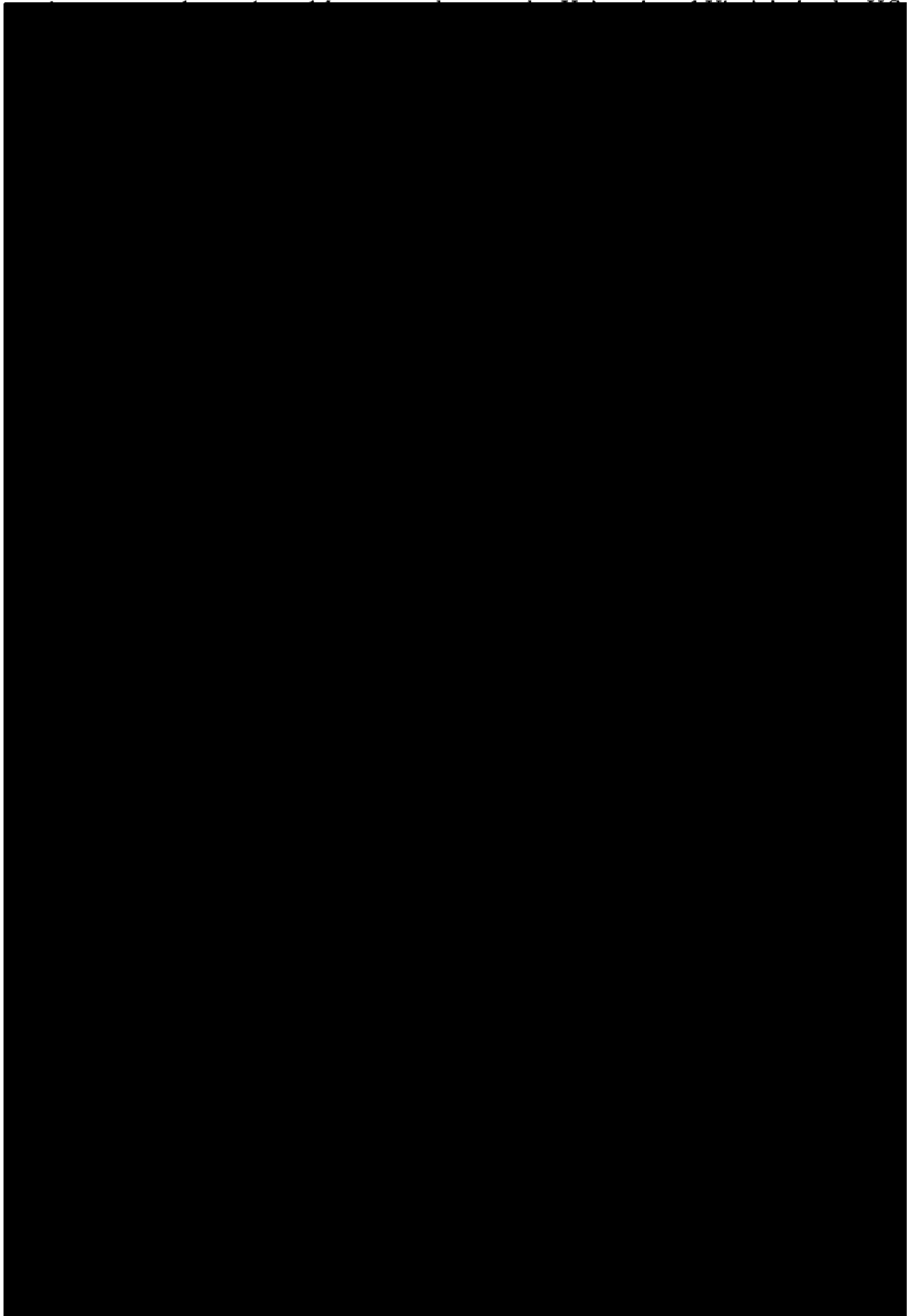
〔VII〕 次の英文の内容に合致するものを下の①～④から一つ選びなさい。



39

- ① All the mice in this experiment exercised regularly for half an hour, though at different times.
- ② Morning workouts might help make stronger and longer bones compared with nighttime exercise.
- ③ Exercising after eating helped four-week-old mice to grow bigger and heavier than any other activities.
- ④ Troy thinks highly of Chen's study because Chen and her colleagues analyzed young mice.

〔VIII〕 次の英文の内容に合致するものを次ページの①～⑥から二つ選びなさい。



- ① The flooding of dopamine into the ventral tegmental area of the brain controls feeding schedules and gets them back to normal.
- ② The mice that had their dopamine-signaling patterns disrupted did not overeat and gain weight.
- ③ According to Ali Güler, eating a small package of food helps people avoid developing serious illnesses such as heart disease and strokes.
- ④ Human beings had to eat as much food as possible to survive severe environments, which has affected their eating habits today.
- ⑤ With the advancement of research and technology in medicine, more people in modern times have managed to avoid obesity than ever before.
- ⑥ In this study, researchers have shown that we can employ the knowledge of obesity to find out how humans have evolved.