

2022 年度(令和 4 年度)

後 期 日 程

英 語 (80 分)

注 意 事 項

1. 試験開始の合図があるまで、この問題冊子を開いてはいけません。
2. 問題冊子は、1 ページから 15 ページまであります。解答用紙は、2 枚からなっており、「1」はマーク式、「2」は記述式です。ページの脱落等に気付いたときは、手をあげて監督者に知らせなさい。
3. 監督者の指示に従って、すべての解答用紙の受験番号欄に受験番号を記入し、マーク欄にマークしなさい。
4. 解答はすべて、解答用紙の指定された欄にマーク又は記入しなさい。
5. 受験番号のマーク時及び解答用紙「1」の解答には、必ず黒鉛筆(H, F, HBに限る)及びプラスチック製の消しゴムを使用し、「マーク例」に従って、正しくマークしなさい。黒鉛筆以外のもの(シャープペンシル等)を使用してマークした場合、マークが薄い場合、一部分しかマークしていない場合、訂正箇所を消しゴムできれいに消していない(消し跡が残っている)場合は、マークが正しく読み取れず、採点できないことがあります。
6. 解答用紙の網掛け部分及び※を付した欄には、何も記入してはいけません。
7. 問題冊子の白紙と余白は下書きに適宜利用してもよいが、どのページも切り離してはいけません。
8. 試験終了後、この問題冊子は持ち帰りなさい。

I

1 Read the following text and answer the question below.

この部分に記載されている文章については、
著作権の問題から公開することはできません。

【出典(一部改変) : <https://www.newsbreak.com/>】

Which of the following is the main idea of the text?

- A. Nyman's business has become more profitable since the introduction of *Sportlov*.
- B. *Sportlov* began because the government wanted to encourage children to do physical activity.
- C. Although the reason for holding *Sportlov* has changed, the government still supports it.
- D. Swedish holidays can be longer than other countries because cultural events like *Sportlov* make people more productive.

2 Read the following text and answer the question below.

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【出典(一部改変) : <https://www.newscientist.com/>】

Which of the following statements is true?

- A. Inefficiency of the piezoelectric effect may be solved by rotting the wood.
- B. The researchers have discovered a special fungus that generates electricity.
- C. After six weeks of the treatment of their study, the wood was released from the fungus.
- D. Burgert has established an LED products firm using fungi.

3 Read the following text and answer the question below.

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【出典(一部改変) : <https://www.newscientist.com/>】

Which of the following best fills [X]?

- A. perhaps serving as a palace or a form of parliament
- B. as a display area for holy objects
- C. acting as an official dining area
- D. storing the bones of important people

- 4 Choose the best answer from A—D to rearrange the following sentences in the best order.

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【出典(一部改変) : <https://www.sciencenews.org/>】

- A. ②—①—④—⑤—③
B. ②—③—①—⑤—④
C. ③—②—④—①—⑤
D. ③—⑤—④—②—①

II

Read the following text and choose the most appropriate word from

A—D to fill in (1)—(10).

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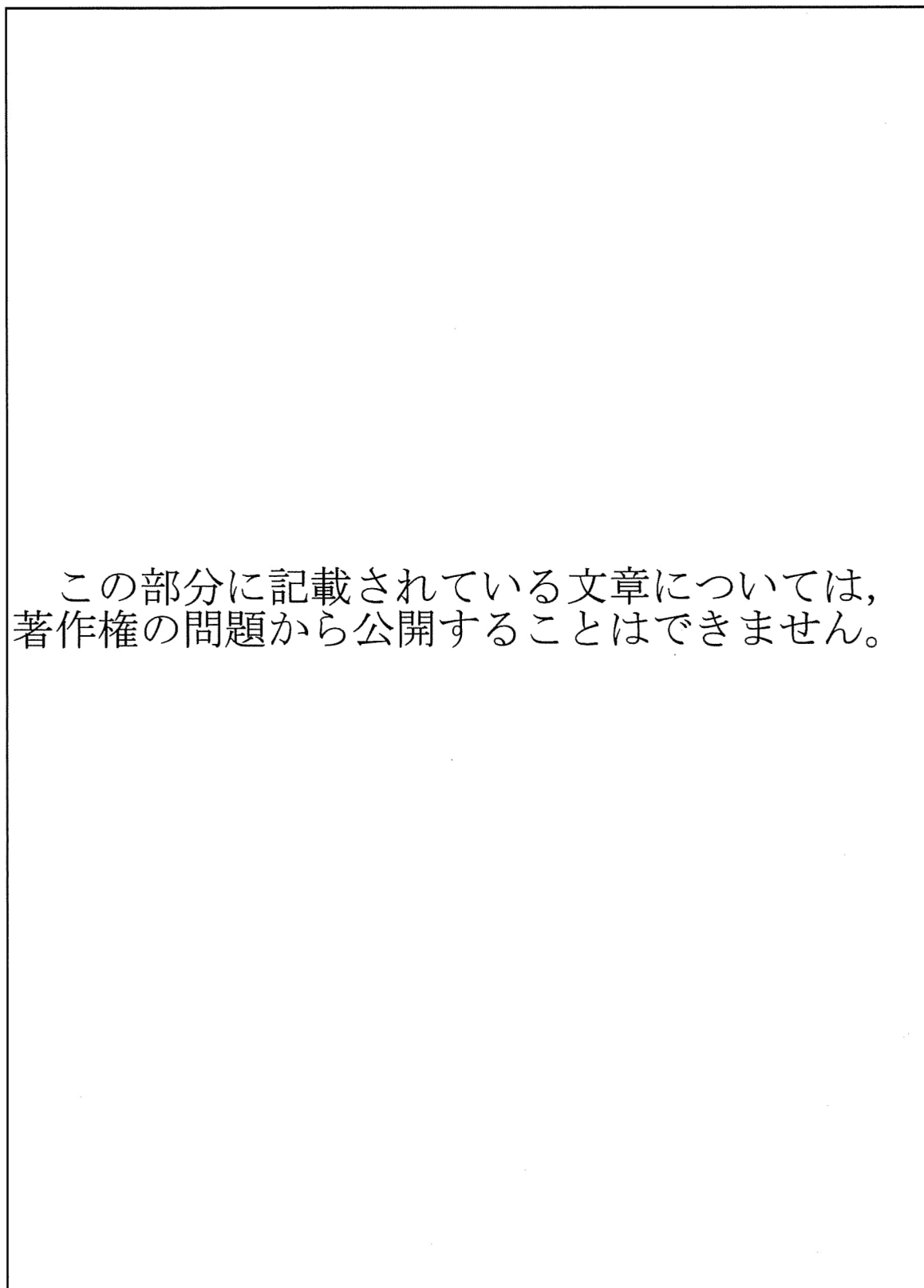
この部分に記載されている文章については、
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【出典(一部改変) : <https://www.independent.co.uk/>】

- (1) A. part B. benefits C. excuses D. consequences
- (2) A. idea B. impact C. value D. price
- (3) A. peacefully B. similarly C. properly D. hopefully
- (4) A. those B. them C. these D. that
- (5) A. compete B. associate C. experiment D. proceed
- (6) A. increase B. reduce C. manipulate D. occur
- (7) A. produce B. count C. process D. identify
- (8) A. also B. differently C. hardly D. merely
- (9) A. out B. by C. through D. down
- (10) A. incidents B. variants C. confidence D. similarities

III

Read the following text and answer the questions below.



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【出典(一部改変) : <http://www.washingtonpost.com/>】

1 Choose the word from A — D which is closest in meaning to ① — ⑤.

- ① A. imitated B. raised C. caused D. exposed
- ② A. protects B. angers C. fails D. proves
- ③ A. sunk B. cleaned C. stored D. weakened
- ④ A. aided B. vacuumed C. studied D. copied
- ⑤ A. lacked B. included C. paid D. served

2 Choose the best answer for each question.

- (1) Where does Chory expect plants to store the carbon they absorb long-term?
- A. in wide, green leaves
 - B. in flower petals
 - C. in tree trunks
 - D. in their roots
- (2) When Chory says about plants, “They’re like a silent partner in all of this,” what does she mean?
- A. Plants play an important role in solving the global warming crisis.
 - B. Plants are a miracle of photosynthesis.
 - C. Plants do not talk.
 - D. All life on Earth owes its existence to plants.
- (3) Which is NOT a benefit of the genetic modification Wolfgang Busch suggested?
- A. storing carbon underground
 - B. returning farm land to a healthy state
 - C. increasing the strength and durability of agricultural crops
 - D. improving crop yields
- (4) How long do scientists anticipate that carbon stored in the suberin molecule would stay trapped?
- A. 50 years
 - B. 100 years
 - C. 1,000 years
 - D. permanently

(5) What percent of the globe's habitable land is used for farming?

A. 25 %

B. 33 %

C. 50 %

D. 75 %

IV

Answer the questions below.

- 1 Taku and his brother Naoki have a plan to give a party and to invite 8 other members of their NITech club to their house. Naoki is going to make a special fruit drink for the guests. He searches for the recipe of the fruit drink and asks Taku to go and buy everything they need. Naoki wants to make enough for all the participants including Taku and himself to have three glasses each. Each glass contains 200 ml of the drink. Some ingredients may be left unused.

What is the minimum Taku has to spend?

Special fruit drink recipe

Mix the ingredients below to make 1 liter of the drink.

Apple	1
Lemon	1
Can of peaches	1/2
Pineapple juice	200 ml
Orange juice	200 ml
Sparkling water.	300 ml

Supermarket prices (tax included)

1 lemon	100 yen
1 apple	150 yen

Convenience store prices (tax included)

1 can of peaches	200 yen
1 can of oranges	200 yen
Apple juice (1,000 ml bottle)	150 yen
Orange juice (1,000 ml bottle)	150 yen
Pineapple juice (1,000 ml bottle)	150 yen
Lemon juice (1,000 ml bottle)	150 yen
Sparkling water (1,000 ml bottle)	150 yen

2 Taro likes drinking wine and often talks to his friend Kanako about which wine is the best. Recently, he has noticed that there are many reasonably priced wines available that come from countries all over the world. Kanako knows a lot about wine, and she has offered to help him.

Taro prepared a bottle of wine from four countries: Chile, France, Japan, and South Africa. Kanako tasted each of the wines, and she gave them a score from 1 to 4 (where 4 is the best) under the categories of flavor, richness, and smell. In any particular category, each of the four wines was given a different score. When Kanako had tasted and given a score to all the wines, Taro calculated the total score for each wine by adding the score from each of the three categories.

The South African wine was rated as being the richest of all the wines but was ranked the lowest for smell. The French wine was judged to have the best flavor, but surprisingly it was also ranked in the bottom half for smell. The wine from Chile was the most reasonably priced, so expectations were low, but it was ranked second for both flavor and richness. The Japanese wine was ranked above the South African wine in the category of flavor and was awarded the top score for smell. The Japanese wine also surprised Taro because Kanako rated it as being richer than the French wine.

Write the overall score for the wine from each country.

Chile _____

France _____

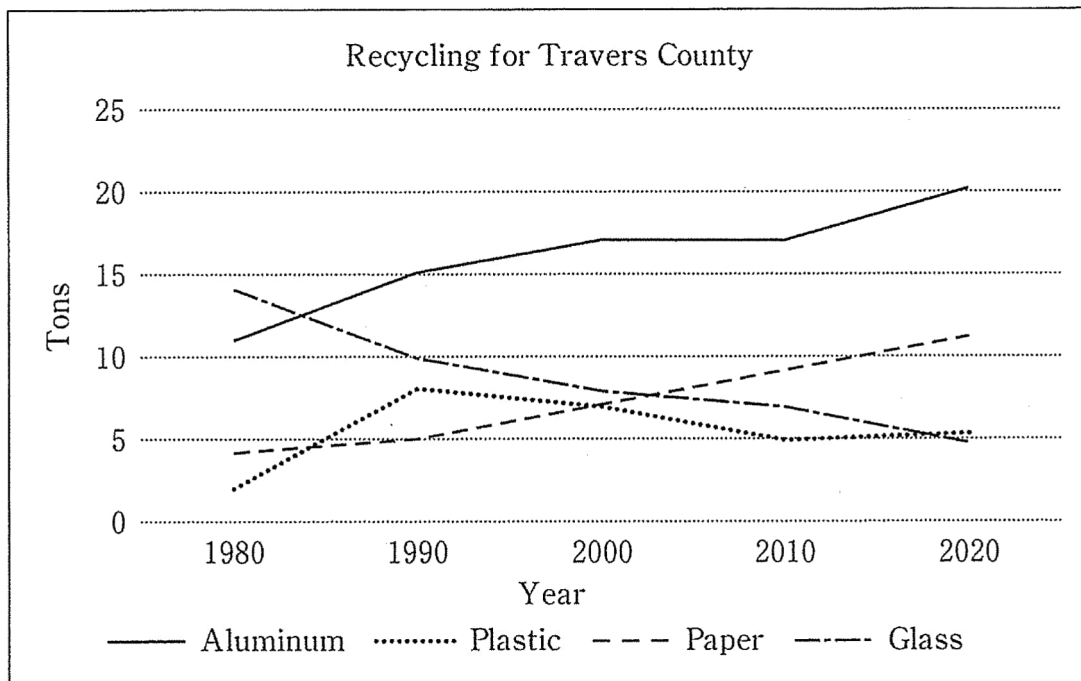
Japan _____

South Africa _____

3 Valerie had a party. She invited five of her friends: Victor, Vlad, Eachann, Eustice, and Eugene. She ordered three pizzas. Each pizza was divided into six slices. After the party, there were three slices of pizza left over. Valerie noticed that the people whose names began with the letter “E” each ate three slices of pizza.

How many slices of pizza did the people whose names begin with the letter “V” eat in total?

- 4 The graph below shows recycling trends in Travers County. Choose the best statement from A — F to describe the graph.



- A. More plastic was recycled in 2020 than in 1990.
- B. The pattern of recycling for paper is roughly similar to that of glass.
- C. All types of recycling have increased steadily since 1980.
- D. More paper and aluminum were recycled in 2020 than in 1980.
- E. Glass recycling bottomed out in 1990 and then peaked in 2010.
- F. In contrast to aluminum, more glass was recycled in 2020 than in 1980.

V

以下の問いに答えなさい。

現在、日本を含めた数多くの国々が積極的に宇宙開発を行っています。宇宙の起源・構造・進化に関する謎の解明や、人類や文明の発展などの目的がありますが、地球以外の惑星に居住地を作り、人類が移住するという構想も描かれています。あなたは、将来、それに参加するとしたら、どのようなことをしたいですか。具体例や理由をあげて 60 語から 80 語の英語で述べなさい。