

## 1 Choose the phrase that best completes each sentence below.

- (1) The boy ( ) is my brother.  
 ア who the contest won twice      イ won who the contest twice  
 ウ who won the contest twice      エ won the contest twice who
- (2) The students were ( ) the school gate.  
 ア excited to find a sleeping cat beside      イ sleeping to excited find a cat beside  
 ウ excited beside to a sleeping cat find      エ sleeping excited to beside a cat find
- (3) I want to know ( ) every day.  
 ア that singer practices how many hours      イ how many hours practices that singer  
 ウ that singer how many hours practices      エ how many hours that singer practices
- (4) The present ( ) to get for a long time.  
 ア she gave me I was wanted the one      イ was the one I wanted she gave me  
 ウ she gave me was the one I wanted      エ was she gave me the one I wanted
- (5) The book gave ( ) prepare for the trip abroad.  
 ア enough information to learn to me what      イ me enough to learn information to what  
 ウ enough to me what information to learn      エ me enough information to learn what to
- (6) I will ( ) me until the exam is over.  
 ア keep to watch the DVDs from I want away      イ watch the DVDs I keep away from want to  
 ウ keep the DVDs I want to watch away from      エ watch the DVDs to keep I want from away

## 2 Read the passage and choose the answer which best completes each blank ①~③.

“What are the important factors when you choose food?” This was one of the questions in research which was done on health and food in 2018. The research was done on people over 19 years old. The people who joined the research answered this question by choosing one or more factors from several choices. The following table shows eight factors and the percentages of people who chose them. From all the people who answered the question, the table shows three generations: people who were 20-29, 40-49, and 60-69 years old.

Look at the table. For each generation, the two factors which show the highest and the lowest percentages are same. They are ①. However, the table also shows that people in each generation had different views on choosing food. If you rank the factors of each generation in order from the highest percentages to the lowest ones, there are some differences in the factors which were ranked second and third among the three generations. ② was ranked second by people who were 20-29 and 40-49 years old though it was ranked third by people who were 60-69 years old. For each factor, there are some differences in percentage points between the generations. Of all the factors, the biggest difference in percentage points is 38.7, and it is found on ③.

- (注) factor 要素      over 19 years old 19歳より年上の, 20歳以上の  
 choice 選択肢      table 表      percentage 割合  
 generation 世代      rank 並べる  
 difference in percentage points 割合の差

## 【Table】

Question: “What are the important factors when you choose food?” Eight factors and the percentages of people who chose them				
factors	ages	20-29	40-49	60-69
taste (おいしさ)		79.5 %	78.1 %	75.8 %
price (価格)		60.2 %	68.5 %	68.1 %
freshness (鮮度)		32.8 %	57.3 %	71.5 %
safety (安全性)		31.0 %	52.1 %	62.7 %
amount and size (量・大きさ)		45.8 %	41.4 %	34.6 %
nutrition (栄養価)		29.1 %	41.9 %	46.3 %
season (季節感・旬)		20.9 %	38.6 %	48.6 %
how easy and convenient (簡便性)		16.1 %	16.1 %	16.1 %

(厚生労働省「国民健康・栄養調査」(令和2年)により作成)

- (1) ① ア “taste” and “price.”  
 イ “taste” and “how easy and convenient.”  
 ウ “price” and “freshness.”  
 エ “amount and size” and “nutrition.”
- (2) ② ア “Taste”  
 イ “Price”  
 ウ “Freshness”  
 エ “Amount and size”
- (3) ③ ア “freshness.”  
 イ “safety.”  
 ウ “nutrition.”  
 エ “season.”

3 Read the passage and choose the answer which best completes each sentence (1)~(4).

According to an old book, on June 10th in 671, a clock was used for the first time in Japan. It was a clock which used water. The date is very important for the history of clocks in Japan.

In the 17th century, in Japan, people began to make some mechanical clocks, but they did not become very popular because people could know the rough time by watching the sun or hearing the sounds of bells from temples. However, in the Meiji period, some people began to use mechanical clocks, because they needed them to use modern technologies which were introduced to Japan from Western countries. For example, in 1872, the first train in Japan began to run. If people tried to take a train, they needed to know the exact time. The change in society ① some changes in people's awareness about time, but very slowly. Many people did not feel the importance of knowing the exact time so much.

In 1920, some people at that time thought it was necessary to change people's awareness about time to make Japan a modern country. With such a purpose, in that year, an exhibition about time was held in Tokyo. Through many interesting things which were shown, people could learn how time had influences on their lives. The exhibition became very popular, and about 220,000 people came. During the exhibition, June 10th became the "Day for celebrating time" because on that day over 1,200 years ② that year, the first clock was used in Japan. At noon, on that day in 1920, all over Tokyo, people could hear a sound which told it was 12 o'clock. The exhibition gave many people a chance to have a sense of minutes and seconds. And, people began to improve clocks to make them more accurate.

Just in one century after the first Day for celebrating time, clocks have become very accurate and people have become very punctual. We don't know how our awareness of time will be changed in the future by more accurate clocks or changes in society.

- (注) the 17th century 17世紀, mechanical 機械式の, rough おおよその, bell 鐘, the Meiji period 明治時代, modern 近代的な, technology 技術, society 社会, awareness 意識, 感覚, exhibition 展覧会, Day for celebrating time 時の記念日, graft ~ ~を接ぎ木する (元になる植物の一部を切り取って, 他の近い種の植物につなげる), second 秒, accurate 正確な, punctual 時間に正確な

- (1) The word which should be put in ① is
ア brought. イ ended. ウ solved. エ took.
(2) The word which should be put in ② is
ア after. イ ago. ウ before. エ since.
(3) The exhibition about time was an event which tried to
ア have some influences on people's awareness about time.
イ tell how difficult it was to make Japan a modern country.
ウ show how people's lives had influences on improving clocks.
エ change Japan by making Japanese mechanical clocks more accurate.
(4) According to the passage,
ア before the Meiji period, there was no technology for making mechanical clocks in Japan, so people at that time could not know the exact time.
イ in the Meiji period, a train was not introduced to Japan from Western countries because people were not ready to use clocks.
ウ on June 10th in 1920, people in Tokyo had a chance to hear a sound which told it was noon.
エ although one hundred years have passed since the first Day for celebrating time, people have not become punctual.

4 Read the passage and choose the answer which best completes each sentence (1)~(3) and choose the answer to the question (4).

In Kimino Town, Wakayama Prefecture, there are trees which are called budou haze in Japanese. People take wax from the berries of budou haze, and the wax is used for making Japanese candles. Some people say that among several kinds of haze, budou haze is the best for wax to make Japanese candles.

Trees of budou haze were made from one original tree. The original tree was found in Kimino Town in the Edo period. People found that the tree had bigger berries than the ① of the other trees of haze. From its big berries, a lot of excellent wax could be taken. So, to make many trees of this same kind, people cut some parts of the original tree and grafted them on the other trees of haze. In this way, many trees with big berries were made, and they were named budou haze because the berries looked like grapes. A People in the town sold the wax from the berries of the trees of budou haze, and the people's lives became better. B However, after many years, cheaper Western candles became popular, so people in the town could not sell a lot of wax. C Most people thought the original tree also died like those other trees. D

In 2016, two high school students in Kimino Town learned about the history of their town and budou haze in their class. ② With the picture in their hand, they walked in the mountains and looked for it. After making a lot of efforts, they found a tree which looked just like the tree they saw in the picture. It was the original tree of budou haze. In January 2020, the tree became a natural treasure of Wakayama Prefecture.



berries of budou haze

- (注) budou haze ブドウハゼ (植物, 複数形も budou haze), wax 蠟 (複数形も wax), berry (木の)実, Japanese candle 和ろうそく, haze ハゼ (植物, 複数形も haze), original 元の, 最初の, the Edo period 江戸時代, graft ~ ~を接ぎ木する (元になる植物の一部を切り取って, 他の近い種の植物につなげる), grape ブドウ, candle ろうそく, natural treasure 天然記念物

- (1) The word which should be put in ① is
ア ones. イ trees. ウ wax. エ which.
(2) The original tree of budou haze was
ア used for making many trees of budou haze.
イ made by people in Kimino Town for excellent wax.
ウ the tree which produced many different kinds of haze.
エ made from some parts of the other trees of budou haze.
(3) The sentence "They stopped growing budou haze and many of the trees died." should be put in
ア A. イ B. ウ C. エ D.
(4) The following passages (i) ~ (iv) should be put in ② in the order that makes the most sense.
(i) They tried another way of research. In libraries, they read many books about the town. And in a book, they found an old picture of the original tree.
(ii) After hearing that, they decided to try to find the tree, although most people said that it died many years ago. They wanted to believe her words.
(iii) They became especially interested in the original tree, because many budou haze were made from the tree. They began doing research on it.
(iv) First, they interviewed many people, and met a woman who believed that the original tree was still in the mountains. She said she saw it 20 or 30 years ago, although she didn't remember the place.

Which is the best order?

- ア (iii) -> (ii) -> (i) -> (iv)
イ (iii) -> (iv) -> (ii) -> (i)
ウ (iv) -> (ii) -> (iii) -> (i)
エ (iv) -> (iii) -> (i) -> (ii)

5 Read the passage and choose the answer which best completes each sentence (1), (2), (4) and (5), and choose the answer to the question (3).

A student in Saitama Prefecture first became interested in the time of blooming for morning glories when she was 12 years old. The student had a question. Why do morning glories bloom in the morning? Later, she learned that the hours of darkness had an influence on the time of blooming. A morning glory blooms about 10 hours after it becomes ①. When she learned the fact, she thought maybe there were some factors which decided the time of blooming. So, she began doing research.



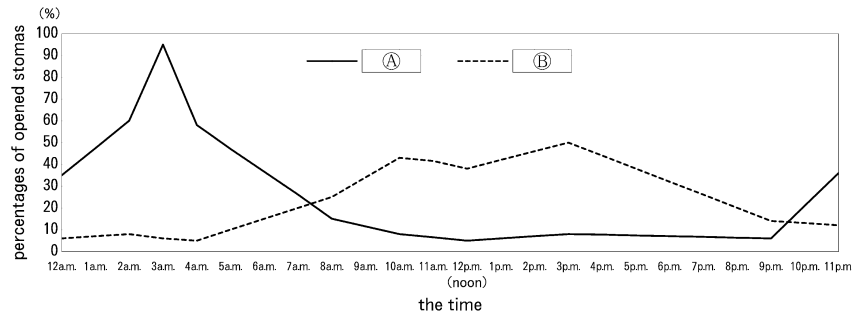
a morning glory (アサガオ)

She kept doing research for five years and found many interesting facts. For example, she found on the white parts of the petal there were very small holes which were called stoma. Many people know that most plants have stomas on their leaves, but she found that morning glories had ② them also on their petals. She did research and made a graph which showed the percentages of opened stomas on petals and leaves. Then, ③ the result showed that the stomas on the petals of morning glories opened when it was dark, although the stomas on the leaves opened mainly for photosynthesis when it was light. And, she found that when it got dark and the stomas on the petals opened, water was carried up to the petals from the stems, and the flower bloomed when the petals got enough ④. From this research, she thought that water in petals was a very important factor which decided the time of blooming for morning glories. For her research, she won an international prize in science for high school students in 2018.

The student said that sometimes she could not get the results she wanted, but such results she didn't want encouraged her to think new ideas and try many ways of doing research. Most people know that a morning glory blooms in the morning, but they don't ask why it does. Her research shows how important it is to have questions about the things around us.

- (注) Saitama Prefecture 埼玉県 bloom 開花する darkness 暗さ factor 要因 petal 花びら hole 穴 stoma 気孔 leaves 葉 (leaf の複数形) graph グラフ percentage 割合 result 結果 mainly 主に photosynthesis 光合成 stem 茎 prize 賞

- (1) The word which should be put in ① is ア dark. イ late. ウ light. エ quick. (2) The word ② them refers to ア leaves. イ petals. ウ plants. エ stomas. (3) The graph below shows ③ the result of the research which the student in the passage did. Which is the pair of phrases which should be put in ④ A and ④ B on the graph?



- ア ④ - stomas on leaves ④ B - stomas on petals イ ④ - stomas on petals ④ B - stomas on leaves ウ ④ - stomas for photosynthesis ④ B - stomas on leaves エ ④ - stomas for photosynthesis ④ B - stomas on petals

- (4) The word which should be put in ④ is ア light. イ photosynthesis. ウ stomas. エ water. (5) According to the passage, the student in Saitama Prefecture ア began doing research on morning glories because she got interested in the factors which caused the differences in the colors of petals. イ found that on the petals, morning glories had very small holes which were one of the keys to answering her question. ウ kept doing research for five years and won a prize in science although the results she didn't want didn't encourage her. エ showed the importance of keeping trying to find a correct answer to a question without thinking new ideas through her research.

6 Read the passage and choose the answer which best completes each blank ①~③.

How did life on the earth begin about 3.8 billion years ago? In the future, you may get the answer through research which will be done on Titan. Titan is the largest moon of Saturn. ① the earth has only one moon, Saturn has over 80 moons. On Titan, there are some rivers, lakes, and even seas. In addition, some special materials which were necessary to start life on the earth were found on Titan. If we can find new facts which show there was life on Titan, it may be possible to know how life was ② on the earth.



Titan (タイタン)

To do research, a drone which is called Dragonfly will be sent from the earth in 2027 and arrive on Titan several years later. After arriving, Dragonfly will fly to many places on Titan and send information to the earth. The technology of drones is getting better. For example, Dragonfly can decide where to fly without orders from the earth. It will be the first time to use drones for research on a moon. Research with Dragonfly will teach us more things in a shorter time than research in the past. ③ to show how life on the earth began.



Dragonfly (ドラゴンフライ)

- (注) billion 10億 moon 月, 衛星 Saturn 土星 material 物質, 材料 drone ドローン technology 技術

- (1) ① ア Because イ If ウ Though エ Until (2) ② ア arrived イ born ウ survived エ taken (3) ③ ア Research on materials on Saturn may be the largest problem イ Exact orders from the earth must lead Dragonfly's flight ウ Quicker information with Dragonfly will stop research エ Improved technology like Dragonfly may bring us new information

7 Read the following sentences and write your answer in English.

Imagine that you are a member of a group of about 10 students. Each member of your group has a different character and opinion. When you choose a leader from the members, what kind of quality do you want the leader to have the most? Choose one of the following qualities, and write a reason for it. After that, write about your experience or an example to support your reason.

- passion kindness creativity diligence a sense of humor

- (注) imagine 想像する quality 資質, 性格 passion 情熱 kindness 優しさ creativity 創造力 diligence 勤勉さ humor ユーモア, 笑い

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得点	
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〈リスニングを除く〉

令和3年度大阪府学力検査問題

英語解答用紙〔C問題〕

					採点者記入欄		
1	(1)	ア	イ	ウ	エ	2	
	(2)	ア	イ	ウ	エ	2	
	(3)	ア	イ	ウ	エ	2	
	(4)	ア	イ	ウ	エ	2	
	(5)	ア	イ	ウ	エ	2	
	(6)	ア	イ	ウ	エ	2	
2	(1)	ア	イ	ウ	エ	2	
	(2)	ア	イ	ウ	エ	2	
	(3)	ア	イ	ウ	エ	2	
3	(1)	ア	イ	ウ	エ	2	
	(2)	ア	イ	ウ	エ	2	
	(3)	ア	イ	ウ	エ	2	
	(4)	ア	イ	ウ	エ	2	
4	(1)	ア	イ	ウ	エ	2	
	(2)	ア	イ	ウ	エ	2	
	(3)	ア	イ	ウ	エ	2	
	(4)	ア	イ	ウ	エ	2	
						34	

					採点者記入欄		
5	(1)	ア	イ	ウ	エ	2	
	(2)	ア	イ	ウ	エ	2	
	(3)	ア	イ	ウ	エ	2	
	(4)	ア	イ	ウ	エ	2	
	(5)	ア	イ	ウ	エ	2	
6	(1)	ア	イ	ウ	エ	2	
	(2)	ア	イ	ウ	エ	2	
	(3)	ア	イ	ウ	エ	2	
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