

リーディング 第3回

時間 80分

100点 満点

- 1 解答にあたっては、実際に試験を受けるつもりで、時間を厳守し真剣に取りくむこと。
- 2 巻末にマークシートをつけてあるので、切り離しのうえ練習用として利用すること。
- 3 解答終了後には、自己採点により学力チェックを行い、別冊の解答・解説をじっくり読んで、弱点補強、知識や考え方の整理などに努めること。

英語 (リーディング)

各大問の英文や図表を読み、解答番号 ~ にあてはまるものとして最も適切な選択肢を選びなさい。

第1問 (配点 5)

You are reading a flyer about a festival that a Japanese language school is going to hold.

The Edo Japanese Language School

Exciting Festival

Saturday, June 10, 1 p.m.-8 p.m.

Entrance Fee: 700 yen

The Edo Japanese Language School (EJLS) is hosting a festival. During the festival, there will be Japanese food stalls, cultural and sporting events, and several contests. We would like to introduce the following three highlights.

- Enjoy Japanese food

You can buy delicious Japanese soul food like yakisoba, takoyaki, ramen at food stalls until an hour before the festival ends. They are worth trying! If you are an EJLS student, you can buy all of them at half price.

- Experience various Japanese traditions

From 2 p.m., you can learn Japanese calligraphy, or *shodo*, using a brush and black ink for one and half hours. Another experience is the Japanese tea ceremony, or *sado*, from 3 p.m. to 4 p.m. Through this experience, you will learn how to make and enjoy Japanese tea and try traditional Japanese sweets.

- Participate in a singing contest

From 6 p.m., you can sing Japanese popular songs in the big hall. Your performance will be evaluated by five professional singers, and the winner will receive 2,000 yen as a prize. If you're interested, don't forget to apply for the competition at least one week before it takes place. We look forward to having you join us.

On the date of the festival, you will receive a card at the reception. If you collect all the stamps on the card by participating in events, you'll get some homemade strawberry jam and cookies.

問1 To get homemade cookies, you must .

- ① collect all the stamps on the card
- ② make a reservation through the EJLS website
- ③ present your student ID at the reception
- ④ win the singing contest

問2 Which of the following is true about the festival? .

- ① Applications for the singing competition can be accepted until June 5.
- ② Japanese food at the food stalls will be served until 7 p.m.
- ③ Sporting events are prohibited at the EJLS festival.
- ④ You can participate in both *shodo* and *sado* experiences.

第2問 (配点 13)

You want to buy a good mattress to reduce the stiffness of your shoulders. You are searching on a UK website and find this advertisement.

Small Stone Company presents a revolutionary mattress

Good Sleep mattresses are long-lasting and high-functioning. They are available in three colours: white, yellow, and pink.

Special Features

The *Good Sleep* mattress has a nano-chip and wires which analyse your body temperature, posture, heart rate, and breathing pattern when connected to the *iSleep* application. Moreover, it can even detect if your breathing stops and sound an alert to wake you up. By downloading the app onto your smartphone, PC, or tablet, you can access the collected data from your body. The mattress has two operating modes. In the *Auto-Adjust* mode, the mattress automatically adjusts its temperature and shape while you are asleep to help enhance the quality of your sleep. The *Manual-Adjust* mode allows you to adjust the temperature and shape of the mattress as you like.

Advantages

Better Posture: The *Good Sleep* mattress can correct your posture during your sleep by adjusting its shape, so that your body will maintain the correct posture throughout the night. This will help reduce headaches, stiffness throughout your body, and ongoing tiredness.

Durability: Our company has successfully developed a new material for mattresses. The *Good Sleep* mattress uses this material, which makes it twice as strong as standard mattresses.

Health Record: You can view your stored body data from the app. You may notice previously unrecognised sleeping patterns that should be fixed.

Emergency Alert: The *Good Sleep* mattress will send you an alert if your breathing stops. This will prevent sudden illnesses like heart attacks caused by any sleeping disorders that disrupt breathing.

Customers' Comments

- I've been able to sleep better! I am more energetic compared with when I was using my old bed.
- My father doesn't have stiff neck and shoulders anymore! Considering these benefits, it's worth buying this expensive mattress!
- I'm used to my sleeping posture now, but it took me several days to get used to it.
- Because the automatically adjusted temperature is sometimes uncomfortable for me, I occasionally adjust it manually.
- When I gave my grandmother this mattress as a birthday gift, she seemed happier.
- The app is easy to use! I didn't have to read the instructions to use it.
- For over 15 years, I had been suffering from back pain that even the doctors could not cure. But, by analysing my sleeping patterns, I was able to identify the cause of the pain and solve the problem!

問1 According to the manufacturer's statements, which best describes the new mattresses?

- ① Blue mattresses
- ② Conventional mattresses
- ③ High-tech mattresses
- ④ Portable mattresses

問2 Which benefit offered by the mattress is most likely to appeal to you?

- ① Better Posture
- ② Durability
- ③ Emergency Alert
- ④ Health Record

問3 One opinion stated by a customer is that .

- ① getting used to correct posture is easy
- ② the app comes with instructions
- ③ the mattress is worth the price
- ④ there is no need to use the *Manual-Adjust* mode

問4 One customer's comment mentions that he or she figured out the cause of his or her health problem. Which benefit is this comment based on?

- ① Better Posture
- ② Durability
- ③ Emergency Alert
- ④ Health Record

問5 According to one customer's opinion, is recommended.

- ① buying blankets that the manufacturer sells
- ② controlling your diet for better sleep
- ③ paying for the advanced features of the app
- ④ using the suitable mode depending on the case

第3問 (配点 6)

An exchange student from the UK in a Chinese school was shopping for vegetables. You are reading an article he wrote for a magazine called *VegiVegi*.



Is this a Broccoli or Lettuce?

Bob Adams

While wandering around a local supermarket in China, I came across a strange vegetable. It looked like a broccoli stick with lettuce leaves growing out of it. How should I cook this? I decided to find out.

It seems that this vegetable has many names, some of which include the word 'lettuce'. You may see it advertised as 'stem lettuce', 'asparagus lettuce', 'celery lettuce', or *wosun* in Chinese grocery shops. In the Western world, the most common name seems to be 'celtuce', so I'll stick to that.

Celtuce is regarded as one of the easiest to use and tastiest vegetables. It has been a main product in Chinese cuisine for ages, and more and more chefs outside of China have been serving celtuce over the past few years. However, it has still yet to gain a similar level of popularity as trendy vegetables such as Brussels sprouts, beetroot, and kale. Some professional chefs consider it to be the most underrated of all vegetables.

Celtuce is a type of lettuce with a thick broccoli-like stem. Some celtuces are sold with their leaves unattached because many of them taste somewhat bitter. The leaves can be eaten, but many people consider them not the best part of the vegetable. To cook celtuce, you need to remove the leafy head and shave off the stem's dull green exterior layer with a peeler. The inside will be shiny and bright.

Not only are there many Chinese recipes but also Western dishes that incorporate the vegetable. One thing for sure is that the easiest way to eat it is raw. You'll quickly recognise that there is no need to add flavour to enjoy it. Another way to enjoy it is to cut the stem thinly and add a bit of salt and sesame seed oil for a little extra flavour.

問1 From the article, what is true about celtuce? 8

- ① Bob is the first person to call the vegetable 'celtuce'.
- ② Celtuce is a vegetable that is new to the Chinese market and gaining popularity there.
- ③ More and more Western chefs visit China to learn how to cook celtuce.
- ④ Some say that celtuce should be more popular than it is.

問2 What does Bob think about celtuce? 9

- ① Celtuce must be heated or boiled before you eat it.
- ② It is better to consume celtuce in Chinese cuisines rather than Western ones.
- ③ The stems of celtuce are as bitter as Brussels sprouts.
- ④ You can enjoy celtuce with minimum flavouring or without any at all.

第4問 (配点 12)

You are writing an essay about exploration. This is your most recent draft. You are now working on revisions based on comments from your teacher.

In difficult economic times, the amount of money spent on exploration and discovery is always reduced. This has happened several times over the last 50 years with both space and deep-sea exploration. People are generally more enthusiastic about space, but I feel ⁽¹⁾we have some of the biggest problems of the twenty-first century. We must continue to invest in exploration of the deep sea so that we can take advantage of its benefits.

The deep seas contain resources that could bring improvements in the field of medicine. Antibiotics are becoming less effective in the treatment of illnesses, and scientists think that the plant life in the deep oceans may provide a solution. They hope to develop new medicines that will make it possible to fight disease for years to come. ⁽²⁾∧ Recognizing the importance of this finding, the 2008 Nobel Committee awarded the Nobel Prize for Chemistry to scientists that made the discovery.

At a time when existing forms of fuel are limited, the deep ocean could provide new sources of fuel. For more than 50 years, oil companies have been drilling in areas like the North Sea. Realizing that these marine resources will not last forever, oil companies are now considering the huge amounts of oil beneath the ocean bed. ⁽³⁾∧ Extracting it safely will require more advancements in technology. Another possible deep-sea fuel source is methane. Having discovered that methane exists on the ocean floor in the form of ice crystals, scientists believe this could be a fuel source for the future.

Finally, there is an idea of using the deep sea for the disposal of nuclear waste. However, it is a controversial issue that needs to be explored further. Some organizations have proposed dropping nuclear waste into the deepest parts of the ocean and sealing it into the ocean floor. While I find this idea disturbing, I accept that most people do not want to live near nuclear waste. ⁽⁴⁾∧

These are just three of the many ways in which learning about the deep ocean may change our lives for the better. We should put more efforts into exploring this field.

Comments

(1) This part doesn't really match this paragraph. Rewrite it.

(2) You are missing something here. Add more information between the two sentences to connect them.

(3) Insert a connecting expression here.

(4) You've forgotten to write a conclusion of this paragraph.

問1 Based on comment (1), which is the best replacement? 10

- ① neither space nor the oceans have to do with
- ② space contributes a lot to
- ③ the oceans hold the solutions to
- ④ we have already solved

問2 Based on comment (2), which is the best sentence to add? 11

- ① Deep-sea exploration has yet to reveal substances useful for medicine.
- ② Scientists have discovered many useful substances from space exploration.
- ③ Some substances produced from deep-sea plants are already being used in medicine.
- ④ The cost of extracting substances discovered in deep-sea plants remains high.

問3 Based on comment (3), which is the best expression to add? 12

- ① For example
- ② However
- ③ In other words
- ④ Otherwise

問4 Based on comment (4), which is the most appropriate for the conclusion?

13

- ① Therefore, I believe that the proposal is good for the environment.
- ② Therefore, I believe that the proposal is not helpful in treating illnesses.
- ③ Therefore, I suppose that the amount of nuclear waste will increase in the future.
- ④ Therefore, I think that this proposal deserves more investigation.

第5問 (配点 15)

You are going to have a group discussion about Fantasy Zoo. Based on the following article and the results of a questionnaire asking visitors their opinions of the zoo, you make a handout for the discussion.

Why Fantasy Zoo Is So Successful

Steve Walsh, writer for *The Journal of Marketing and Tourism*

Today, Fantasy Zoo is known as one of the most successful zoos in the world. However, the zoo faced a crisis in the 1990s. Because many leisure facilities around it appeared at the time and people started going there in search of new experiences, the number of visitors to the zoo significantly decreased each year. While many of the staff thought that the zoo would close, the director decided to revitalize it.

With the support of the city government, Fantasy Zoo initiated a bold reform in 1999, focusing on new animal exhibits. They were designed to recreate natural animal habitats as closely as possible. This method of display allowed the animals to behave in a natural and relaxed manner, and visitors were able to observe their natural behaviors and interactions. Among these animals, waterbirds and polar bears were particularly popular. At the "Waterbird Exhibit," visitors could watch the waterbirds swimming on the pond and flying freely. At the "Polar Bear Exhibit," visitors could see polar bears playing on the ice and swimming in a huge pool up close.

In addition to the introduction of these methods, Fantasy Zoo launched other initiatives to increase its attractiveness. These included the feeding sessions, informative talks by zookeepers, the installation of handmade boards, the opening of a facility called the "Night Zoo" for observing nocturnal animals, and the "Friend Park" where children could interact with small animals such as rabbits and goats.

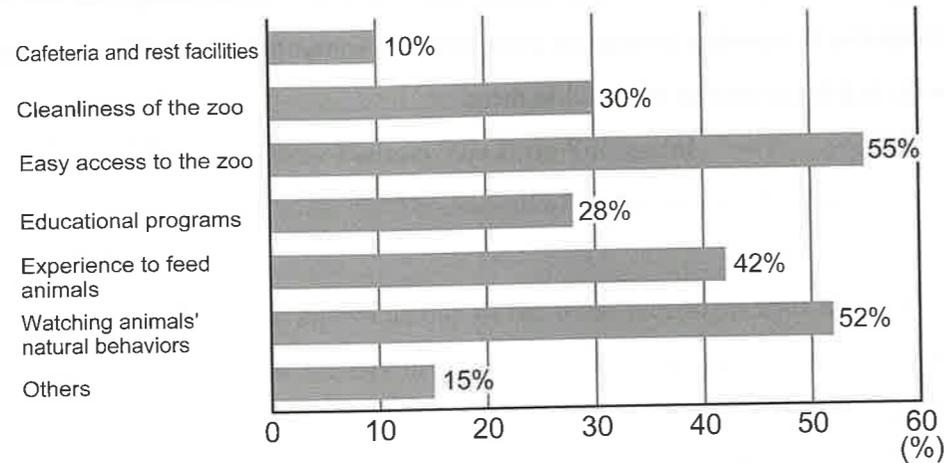
As a result of these efforts, the annual number of visitors rose from 260,000 in

1997 to over a half million in 2005, and reached 2 million in 2010. The zoo had once lost visitors, but it succeeded in providing what people wanted.

Recently, Fantasy Zoo has been offering visitors educational programs on animal ecology and the protection of the natural environment. Additionally, the zoo is participating in a project to support environmental conservation activities on some islands, helping to protect the wildlife there.

Results of the Questionnaire

Q1: What's good about Fantasy Zoo? (Multiple choices)



Q2: What are your impressions of visiting Fantasy Zoo?

Main comments:

Visitor 1 (V1): The zoo is the best place to go on a date with my girlfriend. She looked happier when she could buy rabbit-shaped accessories.

V2: I was surprised to hear that Fantasy Zoo supports activities to protect tropical rainforests and the wildlife that live there.

V3: I was able to observe the natural behavior of the animals up close. It was nice to see the penguins swimming in the water tank.

V4: There are many hills in the zoo, which makes it difficult to get around with a stroller. And the dining options were limited, which was very disappointing.

V5: I'm sure this is the best zoo in the city. The entrance fee is a little expensive, though.

V6: I participated in the program on the natural environment and realized how important it is for us to plant many trees.

Your discussion handout:

Why Fantasy Zoo Is So Successful

■ Fantasy Zoo in Crisis

— 1990s: caused a significant drop in the number of visitors.

■ A Bold Reform

— An innovative method: to introduce an environment where

■ Other Efforts to Increase Attractiveness

- Establishment of an area for children where they can interact with animals.
- Establishment of a facility to observe nocturnal animals.
- Installation of feeding sessions.
- Installation of handmade boards and informative talks by zookeepers.
- Installation of audio devices that explain animals' features.

■ Changes in the Number of Visitors

- In 1997, the annual number of visitors was 260,000.
- In 2005, the annual number of visitors exceeded a half million.
- In 2010, the annual number of visitors reached 2 million.

■ Questionnaire Results

- More than half of the visitors including seemed satisfied with .
- Based on both the graph and 's comment, the number of restaurants in the zoo should be increased.

問1 Choose the best option for .

- ① Increase in the number of leisure facilities around it
- ② Its aging facilities
- ③ Temporary closure for renovation
- ④ The spread of diseases originating from animals

問2 Choose the best option for .

- ① animals can behave naturally
- ② humans and animals coexist peacefully
- ③ land animals and marine animals interact with each other
- ④ many rare animals can live

問3 You are checking the handout. You notice an error in the list of "Other Efforts to Increase Attractiveness." Which of the following should you remove?

- ① A
- ② B
- ③ C
- ④ D
- ⑤ E

問4 Choose the best options for and .

- ① V1
- ② V2
- ③ V3
- ④ V4
- ⑤ V5
- ⑥ V6

- ① cleanliness of the zoo
- ② experience to feed animals
- ③ handmade boards by zookeepers
- ④ informative talks by zookeepers
- ⑤ the way of displaying animals

問5 Choose the best option for .

- ① V1
- ② V2
- ③ V3
- ④ V4
- ⑤ V5
- ⑥ V6

第6問 (配点 18)

You are working on an essay about whether school meals should be provided in high school. You will follow the steps below.

Step 1: Read and understand various viewpoints about school meals.

Step 2: Decide whether you support or oppose introducing school meals into high school.

Step 3: Create an outline for an essay using additional sources.

[Step 1] Read various sources

Author A (Teacher)

Some students and parents might appreciate school meals, but I think many teachers would not. One reason is that teachers don't know their students as well as students' parents do. Students may have an allergy or some other reasons that prevent them from eating a particular food. What if they accidentally eat such a food included in a school meal? Also, while schools would offer the same menu for the same price, students have different tastes and needs. Some parents might not be willing to pay for a lunch that might not be of the quality they want.

Author B (Parent of a student)

I wish my son's high school offered school meals. For many busy parents like me it's hard to prepare a good lunch for the children every morning. Sometimes I have my son buy lunch for himself, but I'm not sure if he chooses a balanced meal. I want my son and other students to eat a proper lunch. Otherwise, they won't do well in class. In addition, I have been feeling that it's not wise to leave a lunch box at room temperature, especially on a hot day.

Author C (High school student)

My school doesn't have a meal system, so I usually bring a lunch box to school. My mother, my brother and I prepare our lunch boxes every morning. School meals might save us time we need to prepare lunch. Still, I think school meals can increase food waste. School meals don't suit everyone's needs or tastes, so food can be wasted. It's much more sustainable to make lunch boxes from leftover meals the day before.

Author D (Nutritionist)

It's important for teenagers to have a healthy, balanced diet, and many argue that school meals can provide that. However, we need to remember that even school meals do not provide all essential nutrients. For students to get complete nutrition, they need to have good meals in the morning and evening, too. Furthermore, if a school lunch includes something a student can't eat (due to allergies, preferences, etc.), that single meal can be very unbalanced. It's most important for students to understand nutrition and have three appropriate meals every day.

Author E (School doctor)

As a doctor who have worked for several high schools and junior high schools, I would like to recommend the introduction of school meals. Every week, schools report one or more cases of students who get sick due to hunger and miss afternoon classes. In schools where school meals are provided, however, such students are by far fewer. The most common cause of their sickness is skipping meals. School meals ensure that students have an appropriate meal at lunchtime and do not miss out on educational opportunities.

問1 Both Authors A and D mention that .

- ① families should teach their children how to make a balanced meal
- ② school meals can include all necessary nutrients for students
- ③ school meals may include foods that students cannot eat
- ④ school meals should be provided for free to every student

問2 Author E implies that .

- ① if school meals are provided, more students will skip evening meals
- ② lunch has something to do with class attendance
- ③ more students get sick in morning classes than in afternoon classes
- ④ some students get sick by eating spoiled food for lunch

[Step 2] Express your opinion

問3 Now that you understand the various viewpoints, you have decided your position about introducing school meals into high school, and have written your opinion as below. Choose the best options to complete , , and .

Your opinion: School meals should be introduced into more high schools.

- Authors and support your position.
- The main argument of the two authors: .

The best options for and (The order does not matter.)

- ① A
- ② B
- ③ C
- ④ D
- ⑤ E

The best option for

- ① School meals can be served fresh and without worrying about them going bad
- ② School meals encourage students to learn eco-friendly eating habits
- ③ School meals help every student eat a proper lunch regardless of their situation
- ④ School meals reduce the time needed for meal preparation

[Step 3] Create an outline using Sources A and B

Outline of your essay:

More high schools should introduce school meals

Introduction

Some high schools have school meals for lunch, but others not. There are convincing reasons for introducing school meals in more schools.

Body

Reason 1: [From Step 2]

Reason 2: [Based on Source A] 25

Reason 3: [Based on Source B] 26

Conclusion

More high schools should provide meals for students.

Source A

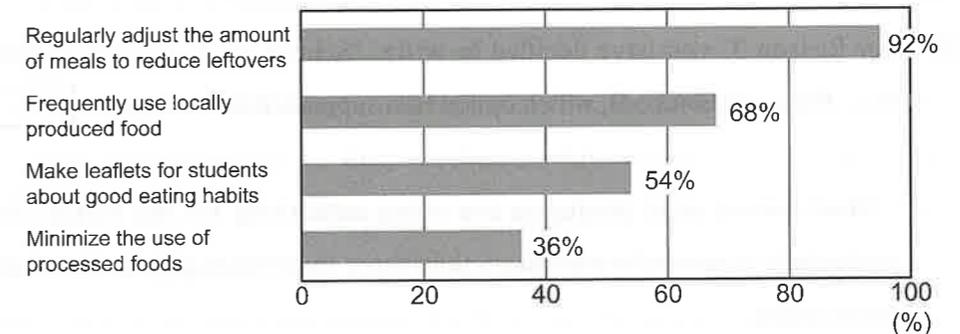
One year has passed since our high school stopped serving school meals. It's time to review what has happened since the change. According to our survey, about 80% of the students usually bring their lunch from home, while most of the rest buy a light meal at the school store. Among the students in the second year and above, who had had school meals before, more than 70% said they liked the school meal system better. Many of them said it's hard to prepare lunch every morning. The survey showed that it takes 25 minutes a day on average to prepare lunch. Also, many students referred to the expenditure. The average spending on lunch in a month increased more than double compared to school meals. On the other hand, those who support the current system say they should be free to choose what they

eat for lunch. Over 90% of students in the second year and above agreed that school meals sometimes did not suit their tastes. Also, about a half said the portion of school meals were too large or too small. There are both advantages and disadvantages to school meals, but it should be noted that a majority miss them.

Source B

A survey was conducted to examine school meal producers in terms of the SDGs. Fifty school meal producers participated in the survey. The graph below shows the percentages of producers who responded that they were making these efforts.

School meal producers' efforts for the SDGs



問4 Based on Source A, which of the following is the most appropriate for Reason 2?

25

- ① A survey showed that many students lack important nutrients if school meals are not provided.
- ② Although it's difficult to suit everyone's tastes, school meals can offer the desirable portion for all students.
- ③ Because school meals do not suit every student's tastes, a large amount of food is often wasted.
- ④ The school meal system is beneficial, since students spend less time and money on lunch.

問5 For Reason 3, you have decided to write, "School meals contribute to the SDGs." Based on Source B, which option best supports this statement? 26

- ① Most school meal producers are doing something for the SDGs. It is particularly noteworthy that more than three-quarters engage in local food consumption.
- ② School meal producers can contribute to the SDGs in various ways. More than half promote good eating habits and reduce processed foods in their meals.
- ③ Thanks to school meals, lunchtime can also be an educational opportunity. More than two-thirds of school meal producers teach students how to improve their eating habits.
- ④ The food waste must be a major issue for school meal providers and they are well aware of it. Less than ten percent of them leave the problem unaddressed.

第7問 (配点 16)

You are in an English discussion group, and it is your turn to introduce a story. You have found a story in an English language magazine in Japan. You are preparing notes for your presentation.

Memories of Mr. Hirano

On Sunday, Keiko, Rina and Yuji went to Mr. Hirano's funeral, which was held at a large funeral hall in the city.

"There's a huge crowd! How many people are in line?" asked Yuji.

"Well, almost a hundred, mostly his former colleagues and students," replied Rina.

"Anyway, let's wait for our turn to burn some incense for him," said Keiko.

After ten minutes or so, they reached a white wooden altar decorated with beautiful flowers. Mr. Hirano was smiling gently in the portrait placed in the center. They put their hands together and prayed for his soul. Keiko began to feel the reality of his death, and recovered a little from the shock of when she first heard the news.



Upon returning home from work, Keiko noticed an incoming call on her cell phone. It was from Rina, her closest friend from senior high school. She couldn't remember the last time she had talked to her.

"Hello, Rina. It's been a long time!"

"Hi, Keiko, how are you?"

"I'm fine, but why the sudden call?"

"I have some sad news for you. Do you remember Mr. Hirano — a Japanese teacher at our high school?"

"Yes, I remember him very well. He retired from high school five years ago. What happened?"

"Mr. Hirano passed away. He died of a heart attack."

"Oh, my goodness! What a shock!"

Keiko raised her voice in surprise. To her, he was the most respectable teacher she'd ever known.

"His funeral is next Sunday. I got a call from Yuji, and we are going to attend it to say farewell. Would you like to go with us?"

"Yes, I'd love to."

"OK, I'll give you the funeral details by email later."

"Thanks, Rina. See you soon."



After hanging up the phone, Keiko was absent-minded for a while. She couldn't believe that Mr. Hirano was gone. Keiko looked at the bookshelves in her room. There were several books that he had recommended her to read in her teens. Among them, the novel about making dictionaries caught her eye. Keiko clearly remembered that this novel had the greatest impact on her life. When she pulled it out, a handwritten note fell out of the middle of the book.

To Keiko,

This novel describes the world of Japanese dictionaries. It tells the story of how dictionaries are edited and what kind of people are involved. I hope that after reading this book, your world of words will expand and become richer.

Hirano

It was Mr. Hirano's beautiful handwriting with a fountain pen. After reading the message, Keiko wept. Keiko wished that she could see and talk to him again.



After praying for Mr. Hirano at the altar, Keiko was approached by an elderly woman in front of the restroom. Seeing the black ribbon on her chest, Keiko recognized that it was Mrs. Hirano.

"You must be Hamada-san, correct?"

"Yes, I'm Keiko Hamada."

"You are a lexicographer, right?"

"Yes."

"You sent my husband a new Japanese dictionary five years ago. He was so delighted to receive it as a special gift in the last year of his career as a high school teacher. Every time he looked up words in it, he would proudly mention that it was edited by one of his most talented students."

Tears welled up in Keiko's eyes. She hadn't realized that Mr. Hirano had held her in such high regard.

"Thank you for attending today. Good luck with your work," Mrs. Hirano said, holding Keiko's hand.

Keiko couldn't help but cry out loud. She wanted to say something to comfort Mrs. Hirano, but she could not come up with anything to say. All Keiko could do was hold onto her hand tightly.



After leaving the funeral hall, Keiko, Rina, and Yuji went to the café that they frequently went to while in high school. Just like in those days, they took the window seat in the corner and ordered their drinks. They wanted to spend more time sharing memories of their late teacher.

"Mr. Hirano was great," Keiko said over a coffee. "Without him, I would not be what I am. To express my gratitude, I gave him the dictionary I first completed after five years since I started working." Then Keiko talked about the book Mr. Hirano had given to her.

"Ahh, that's why you became a lexicographer," Yuji said. "Mr. Hirano also gave me some advice. Before I moved to Tokyo, he gave me a photobook featuring over 100 cafés in Tokyo."

"That's wonderful. Did you enjoy reading it?" asked Rina.

"Yes, very much. Whenever I had free time, I would visit the coffee shops featured in it. That's how my passion for coffee grew, and I ended up owning one myself," Yuji answered sipping his coffee. "By the way, the coffee here is as

fragrant as ever.”

“Wow, that’s incredible! Where’s your café?” Keiko asked with excitement.

“It’s in Tokyo. You can come by anytime. I’ll serve you the best coffee and tea,” Yuji said.

“I’ll definitely go there soon,” Rina said.

“Rina, what about you? Did Mr. Hirano suggest any reading for you?” asked Keiko.

“He recommended a story about volunteers who helped people in developing countries,” answered Rina. “After reading this story when I was in high school, I also wanted to help those who are suffering from poverty. So, I went to several developing countries and helped local people to dig wells during my time at university. Throughout this experience, I realized people there have difficulties securing enough drinking water, and I decided to work at a company that makes water purifiers for them.”

“That’s great. Anyway, his choices of books were awesome. He was probably a great reader, so he had so many books to introduce to us,” Yuji said.

“I agree. Mr. Hirano knew exactly what each of us needed and chose the right books for us. No wonder his choices helped determine the courses of our lives.”

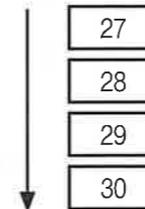
Keiko’s words summed up everything they said about him at the café.

Your notes:

Memories of Mr. Hirano

Story outline

Keiko receives a phone call from Rina.



Keiko, Rina, and Yuji share their memories of Mr. Hirano.

About Keiko

- Occupation: a lexicographer; she has been working for about .
- What happened between her and Mr. Hirano:
As a high school student, Keiko was given by Mr. Hirano.
After she started working, Keiko sent Mr. Hirano .

Mr. Hirano's influence on Rina and Yuji

- Influenced by a book Mr. Hirano recommended, Rina .
- Yuji runs a coffee shop because he .

問1 In order to complete the **Story outline**, choose **four** out of the five events

(① ~ ⑤) and rearrange them in the order in which they occurred.

→ → →

- ① Keiko is spoken to by Mrs. Hirano in front of the restroom.
- ② Keiko, Rina, and Yuji go to the coffee shop they used to visit.
- ③ Keiko, Rina, and Yuji wait in line to attend the funeral.
- ④ Keiko sends a Japanese dictionary to Mr. Hirano.
- ⑤ Keiko weeps after reading Mr. Hirano's message.

問2 Choose the best option for .

- ① five years
- ② ten years
- ③ fifteen years
- ④ twenty years

問3 Choose the best options for and .

- ① a book that describes the mysteries of the universe
- ② a newly completed Japanese dictionary
- ③ a novel that describes the world of dictionaries
- ④ a photobook featuring cafés in Tokyo
- ⑤ a story that takes place in junior high school

問4 Choose the best option for .

- ① decided to own a coffee shop in Tokyo after graduating from university
- ② has worked so that people in developing countries have more access to safe water
- ③ now works as a volunteer to help people in poverty
- ④ went abroad to learn about local cuisines during her university days

問5 Choose the best option for .

- ① likes to have conversations with customers over coffee
- ② thinks that the coffee shop business is promising
- ③ was inspired by a book Mr. Hirano had given to him
- ④ was told to start his own business by Mr. Hirano

第8問 (配点 15)

Your group is going to make a presentation on the environmentally friendly society. You have read the following article. You are making presentation slides based on the information from the article.

Throughout history, humans have constructed a complex web of roads. Today, the world boasts about 65 million kilometers of roads, which are more than 1,600 times the length of the Earth's equator. While roads foster human prosperity, they pose threats to our delicate ecosystems.

One of the major problems of today's car culture is car emissions. Vehicle exhaust gas contains greenhouse gases and pollutants that affect both humans and wildlife around the world. Additionally, road salt used for de-icing accumulates in water and soil along roadsides. It raises sodium levels in them and damages not only plants, but also animals and insects that depend on the vegetation.

The noise from vehicular traffic also disrupts the natural world. Loud traffic noise is known to increase human stress, as measured by levels of the stress hormone cortisol. Although it's not certain that other animals experience stress in the same way, noise does affect them. Speeding cars make a roaring sound that interferes with animals' communication. Noise pollution also affects their ability to detect predators or prey. In one study, researchers placed speakers that produce sounds similar to road noise in several locations near bird habitats. They compared the number of birds between the noise-on periods and noise-off periods. The results suggested that noise can decrease the bird numbers by more than 25%.

In addition, roads act as barriers to animal movement. Vehicles sometimes collide with animals and kill them, and those staying away from the danger are also affected. Even in the absence of fences or walls, most animals are unable, or at least reluctant, to cross roads. Roads limit animals' access to vital resources such as food and shelter, break their habitats into pieces, and restrict migration. Herds of animals like deer wander dozens of miles seasonally in search of a better place with vegetation for food. With networks of roads, however, they are tied to limited habitats, which can seriously

affect their survival and thriving.

In response to these challenges, the field of road ecology has emerged, focusing on the intersection of roads and ecosystems. Traditionally, engineers prioritized human safety, so preventing collisions between vehicles and large animals was the sole concern. Today, with an increased emphasis on conservation efforts, ways are being sought to reduce the negative impacts of roads on the natural world.

One key strategy involves the construction of wildlife crossings. These include bridges over roads and tunnels under roads. These crossings allow animals to cross roads safely. One successful example of wildlife crossings is those over the Trans-Canada Highway near Banff National Park, which is home to diverse wildlife. Six bridges and 38 tunnels were built near the park. During a period of more than ten years, animals were recorded using the crossings over 140,000 times, and wildlife-vehicle collisions were reduced by 90%. The project has not only saved precious wildlife, but also significantly cut the annual cost to the national park involving vehicle-animal accidents.

Wildlife crossings have been spreading around the world. A new crossing, called the Wallis Annenberg Wildlife Crossing, is currently under construction over the 101 Freeway near Los Angeles. It is expected to be completed in 2025 and will be the largest wildlife crossing in the world. The crossing will be a 50-meter-wide bridge over the ten-lane highway. The bridge will be landscaped with native trees and bushes, and the environment for wildlife habitat will be created on both sides of the crossing. This is important in that especially small animals feel comfortable approaching the bridge. Because this area is home to large carnivores, including mountain lions, smaller animals will move from bush to bush, hiding from predators. It's like creating a new ecosystem above the highway.

From a road ecological point of view, encouraging the use of low-emission vehicles, reducing the use of road salt, and installing walls to cut noise are also preferred steps. These measures minimize air, water, soil and noise pollution. By implementing innovative solutions such as wildlife crossings and other eco-friendly practices, we can strike a balance between progress and preservation. Through these efforts, we pave the way for a more harmonious environment for both humans and animals.

Your presentation slides:

Roads and the Ecosystems



1

1. Effects of Roads on the Ecosystem

- [36]
- [37]
- Traffic causes noise pollution that disrupts animals.
- Roads block animals' movement.

2

2. Noise Pollution

- Noise from roads [38].
- A study showed that noise decreased birds in number.

3

3. Barriers

- Animals cannot move across roads freely.
- As a result, [39].

4

4. Road Ecology

In the past, [40].



Today, road ecology is attracting attentions.

5

5. Wildlife Crossings

Examples:

- Crossings near Banff National Park
... reduced 90% of car accidents with animals
- The Wallis Annenberg Wildlife Crossing near Los Angeles
... [41]

6

問1 Choose the best options for [36] and [37]. (The order does not matter.)

- ① Developed transportation attracts many tourists to unspoiled nature.
- ② Road salt for removing ice affects plants and animals.
- ③ The development of roads hinders human prosperity.
- ④ Vehicles produce gases that do harm on a global scale.

問2 Choose the best option for [38].

- ① causes animals as much stress as it does humans
- ② causes animals to make more noise
- ③ makes animals misunderstand vehicles for other animals
- ④ makes it difficult for animals to exchange information, hunt and escape

問3 Choose the best option for [39].

- ① larger animals get less food while smaller ones feel safer
- ② their living places are limited to roadsides where resources are scarce
- ③ they can't move from habitat to habitat easily to get necessary resources
- ④ they need to move a longer distance to get food and shelter

問4 Choose the best option for .

- ① animals were not used to the speed of vehicles, so their collisions happened frequently
- ② human safety was mostly prioritized, so negative impacts on the environment were likely ignored
- ③ the cost of building roads was lower, so engineers built more roads than needed
- ④ there were fewer cars on roads, so collisions between cars and animals were much less common

問5 Choose the best option for .

- ① becoming the longest tunnel built under a road
- ② building up a large scale ecosystem not just on the bridge itself but around it
- ③ favoring small animals by keeping out large predators
- ④ raising funds from the supporters of conservation efforts