

リーディング 第5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。

※「リーディング」問題構成について

2022年に大学入試センターにて実施された「2025年度大学入学共通テスト試作問題モニター調査」では、大問数が第8問構成へと変更されています。ただしこの問題構成はモニター調査で必要な情報を収集するために構成したもので、本番に向けて問題構成は今後も引き続き検討をすとの付記があります。

この問題集では新しい第8問構成の問題（第5回）とこれまで通りの第6問構成の問題（第1～4回）の両パターンの問題を収録しています。

英語 (リーディング)

(解答番号 ~)

第1問 (配点 10)

A You are going on a school trip to a historical city, and your teacher gives you a handout about two guided tours you can choose from.

Historical Tours	
<p>◆ Old Town Walking Tour</p> <p>Step back in time and explore the rich history of the city's colonial era</p> <ul style="list-style-type: none">• Starts at 9:00 a.m. and continues for 2 hours and 30 minutes (short breaks included)• Informed by guides dressed in old-fashioned costumes• Stops at historic buildings and famous sites• No food allowed during the tour	<p>◆ Riverboat Cruise Tour</p> <p>Discover the city's history while enjoying a sightseeing cruise along the river</p> <ul style="list-style-type: none">• Cruise begins at 11:30 a.m. and lasts for two hours• Experienced guides tell stories of "the city of rivers" in the old days• A great view of the city's bay area and the mountains behind it• Café on ships offering snacks and drinks
Instructions: Which guided tour would you like to join? Fill in the form below and hand it to your teacher today.	
Choose (✓) one: Old Town Walking Tour <input type="checkbox"/> Riverboat Cruise Tour <input type="checkbox"/>	
Name: _____	

問1 What is the purpose of the handout?

- ① To guide students during their school trip.
- ② To introduce the city's traditional architecture.
- ③ To present options in taking guided tours.
- ④ To provide information about historical sites.

問2 What is true about both tours?

- ① You can eat and drink anytime during the tour.
- ② You can get historical information from guides.
- ③ You can get the tours finished in the morning.
- ④ You can wear historical costumes.

B You are a senior high school student studying in the US, and interested in improving your musical skills during the summer vacation. You come across an advertisement for a music workshop planned by a famous music school.

Melody Music Workshop

Melody Music Workshop (MMW) has been providing music workshops for high school students since 1995. Spend two weeks in a fully musical environment!

Dates: July 15-28, 2024

Location: Harmony Hall, San Francisco, California

Cost: \$800 (includes instruction and access to musical instruments; for optional private lessons and instrument rentals, additional fee is required)

Workshops Offered

◆ **VOCALS:** Learn vocal techniques, stage presence, and perform popular songs in a group. Your instructors have teaching experience in the music industry and have performed in various concerts and events. Take part in the contest and show your skills on the last day of the workshop.

◆ **INSTRUMENTS:** Choose an instrument of your choice (guitar, piano, drums, or violin) and receive specialized instruction. Instructors for each instrument have a strong background in music education and performance. Join a band with fellow participants and compete with other bands for a prize on the final day.

◆ **SONGWRITING:** Develop your songwriting skills and collaborate with other participants to create original songs. Your instructors are music teachers as well as professional singer-songwriters, who have written songs for popular artists. Participate in the contest to show your original composition in the musical event on July 28.

▲ Application

Step 1: Fill out the online application form [HERE](#) by June 15, 2024.

Step 2: We'll contact you and schedule a face-to-face interview to know more about you and your musical abilities.

Step 3: You'll be assigned to a workshop based on your musical skills and interests.

問 1 All instructors in Melody Music Workshop have .

- ① performed in music concerts
- ② won national music competitions
- ③ worked in music education
- ④ written songs for popular artists

問 2 On the last day of the workshop, all participants will .

- ① compete to show their improvement
- ② evaluate each other's performances
- ③ join a band with other workshop members
- ④ make your original compositions

問 3 What will happen after submitting your workshop application? .

- ① You will attend whichever workshop you like.
- ② You will be invited for a face-to-face interview.
- ③ You will show your musical abilities at an online interview.
- ④ Your paper application will be checked by instructors.

第2問 (配点 20)

A You want to buy an e-book reading device as you have too many books in your bookshelf and no more space is left. You are searching on a UK website and find this advertisement.

Cozy Electro presents the new *Brain SP* e-book reader

Brain SP is an e-book reader which improves your reading life. It is available in three colours.



Special Features

Brain SP e-book reader provides smoother and quicker responses than ever: you can flip the pages without stress. In addition, by using the included touch-pen or the software keyboard, you can underline the text and make notes on the e-books. Your notes can be arranged freely so that you can find your specific note without difficulty. Tap a note on the list, and you can jump to the page on which the note was made. As with other Cozy Electro e-book readers, it has a long-lasting battery and a large amount of storage (32 gigabytes or 64 gigabytes). It is not waterproof, though.

Advantages

Audio Book: You can listen to audio books with headphones or the built-in speaker.

Automatic Light Adjustment: The built-in sensor checks the surrounding brightness and adjusts the intensity of light, which enables you to read comfortably whether you are on a train, on a park bench or in bed.

Recommendation of New Books: Based on your choices, it recommends books that you may like.

Scanned Data Available: Send your own books to our office, and you can get the scanned data as a form of e-book. (*You can't get your books back. **Some books are not accepted due to copyright problems.)

Customers' Comments

- It recommends a variety of books, and I find most of them interesting.
- I download books that have no picture or sound, and it seems that the storage will never be full. I would prefer a less expensive one with smaller storage.
- Easy to use! I have been a booklover since childhood, and now I enjoy reading books as I did with paper books.
- One thing I want to complain about is that it isn't waterproof. I wish I could take it to the beach.
- I find it quite useful that I can make notes and find them easily. I prefer typing to using the included pen when I write down many words.
- I listen to audio books with the built-in speaker while I'm trying to sleep.
- When I read in a dark room, its light tends to be too bright. I have to lower the brightness by myself.

問1 According to the maker's statements, which is NOT an appropriate use of the new e-book reader?

- ① Listening to an audio book on the train
- ② Reading a novel while having a bath
- ③ Viewing a photo book in the garden
- ④ Writing notes on an e-book recipe

問2 Which benefit offered by the *Brain SP* e-book reader is most likely to appeal to you?

- ① Getting scanned data from paper books
- ② Having brightness adjusted automatically
- ③ Making notes on e-books
- ④ Receiving recommendation of new books

問 3 One opinion stated by a customer is that **8**.

- ① audio books can be heard without headphones
- ② reading on the device is totally different from reading paper books
- ③ the recommended books are enjoyable
- ④ the storage is too small for a booklover

問 4 One customer's comment mentions a problem while reading in a dark room. Which feature is this comment based on? **9**

- ① Audio Book
- ② Automatic Light Adjustment
- ③ Recommendation of New Books
- ④ Scanned Data Available

問 5 According to one customer's opinion, **10** is a good idea.

- ① additional storage for the reader
- ② ignoring the maker's recommendation
- ③ making the light as bright as possible
- ④ taking notes by typing

B You belong to the math club at high school. The club members have been planning an event to encourage more students to be interested in math. You have found a school article written by a student in the UK.

Ascotfield School Math Competition

Some students dislike studying math at school. You may often see or hear them struggling with math especially during their exam periods. Studying math, however, is interesting, and there are a lot of problems in our daily lives that can be solved with math as well as in textbooks. Last autumn on 7th and 8th October our math club held an online math competition where students in Year 11–13 answered math questions related to real life. Every participant had to submit their answer within two hours on the internet. This competition gathered 120 students: more than half of them were Year 12; about two-fifths were Year 11; the number of the Year 13 participants was only 10. Why did more students in Year 12 participate than students in Year 11 or Year 13? The participants' comments below may help to answer this question.

Participants' Comments

LT: One of my Year 13 friends couldn't take part in this math contest because she was too busy preparing for her university application. This may also be the case with other Year 13 students.

RS: This competition motivated me to study harder. After the competition, I got the highest score ever in a math exam at school.

BJ: I think the math problems were worth solving, but I couldn't upload my answer due to computer trouble. I wish there had been another way to submit it.

TM: I'm a student in Year 11 and really enjoyed this challenge, but it's a pity a lot of my classmates only noticed this event after the entry period.

DC: Thank you for holding a special event like this. I felt it was difficult to understand how to upload my answer. It was complicated and should be changed next time.

問 1 The purpose of Ascotfield School Math Competition was to .

- ① encourage students to study math at university
- ② help students realise how interesting math is
- ③ improve students' calculation skills efficiently
- ④ show students the difficulty of mathematics

問 2 One fact about Ascotfield School Math Competition is that .

- ① fewer than one tenth of the participants were in Year 13
- ② over half of the competitors were students in Year 11
- ③ participants were allowed to submit their answers on paper
- ④ students had to get a good math score before the competition

問 3 From the participants' comments, Ascotfield School Math Competition enabled a student to .

- ① do better in a math test at school
- ② make several friends who love math
- ③ pass a college entrance examination
- ④ realise math can change daily life

問 4 Some participants in Ascotfield School Math Competition think that .

- ① the math competition should be cancelled next year
- ② the math questions were too difficult to answer
- ③ the two-hour testing time should be changed
- ④ the way to submit answers should be reconsidered

問 5 The author's question can be answered by comments from .

- ① BJ & DC
- ② BJ & TM
- ③ DC & RS
- ④ DC & TM
- ⑤ LT & TM
- ⑥ LT & RS

第3問 (配点 4)

You are studying at a high school in Sydney. To prepare for a cooking class, you are now reading a textbook.

How to Make a Hamburger

First you need to make a burger patty. It is important to prepare ground beef that has some fat. This will make the burger juicier. Put salt and black pepper on the ground beef and mix it until you cannot see any of the salt or pepper. If it is not mixed well enough, the beef patty will fall apart while you are frying it. Then put the ground beef into the pan and gently press it into a 1/2-inch-thick patty. Fry it till it gets brown. To prevent food poisoning, make sure the patty is well-done. The recommended heating time is about ten minutes.

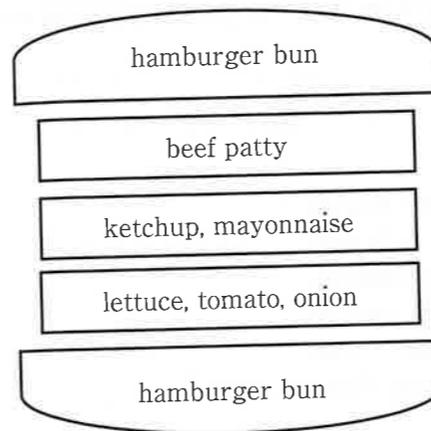
Before serving, spread the bottom half of the toasted hamburger bun with tomato ketchup and mayonnaise, and put vegetables on the bun. The vegetables' order does not matter. The oil in the mayonnaise keeps the bun from absorbing the water contained in the vegetables. Then, place the beef patty on them. Finally put the upper half of the hamburger bun on top and lightly press the hamburger together.

問1 In order to prepare a hamburger that is safe to eat, you have to 16.

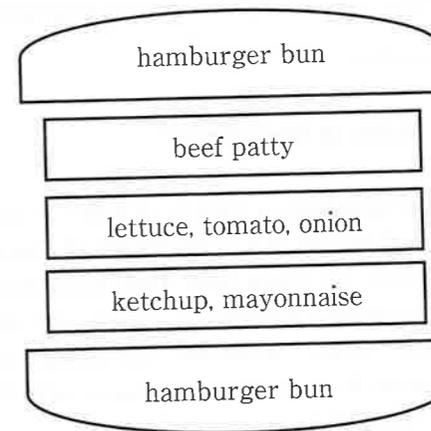
- ① choose meat which contains a little fat
- ② heat the beef patty for sufficient time
- ③ mix the ground beef with salt and black pepper well
- ④ use salad oil instead of animal fat

問2 If you follow the advice, how should you make a hamburger? 17

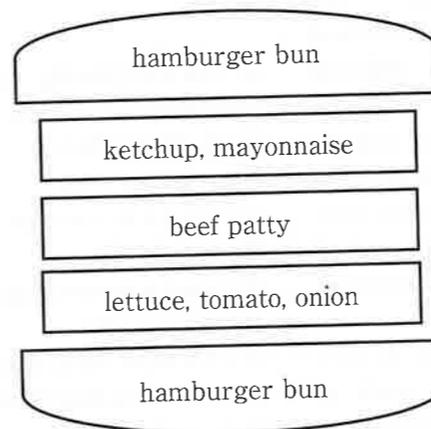
①



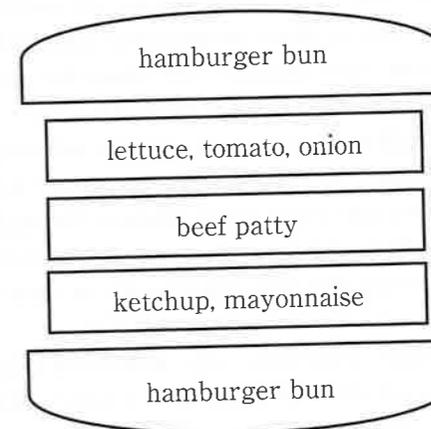
②



③



④



第4問 (配点 8)

In English class you are writing an essay on a topic you are interested in. This is your most recent draft. You are now working on revisions based on comments from your teacher.

The Roles of Museums

Museums play a variety of roles in society though many of us are not fully aware of them. It is said that there are more than 4,000 museums or facilities with a similar purpose in Japan and that a total of around three hundred thousand people visit museums in a year. This essay will discuss three main roles that museums play.

First, museums preserve culturally and historically valuable things in a good condition. There are a lot of heritages in each part of the world, but without proper care, they will soon break and lose their beauty. ⁽¹⁾∧ Thus, it can be said that museums are the keepers of our past.

In addition, museums play an educational role by displaying their collections in proper arrangements. Visitors can learn about history through what they see. ⁽²⁾∧ Looking at the pots and tools from ancient Egypt can help you imagine life in those times more vividly than just reading about it.

Finally, museums ⁽³⁾are wonderful places. In fact, many of the world-famous tourist cities, such as Paris, London and New York, have great museums, which are one of the most popular destinations for tourists. It is pointed out that museums not only bring money to the cities but also improve their images as cities of culture and art.

In conclusion, museums are beneficial to society in that they hand down valuable things to the future generations, ⁽⁴⁾show the collections, and attract tourists from around the world.

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

(2) Insert a connecting expression here.

(3) This topic sentence doesn't really match this paragraph. Rewrite it.

(4) The underlined phrase doesn't summarize your essay content enough. Change it.

Overall comment:

Your essay is getting better. Keep up the good work. (Do you often visit museums? Tell me about your favorite if you have any! 😊)

問1 Based on comment (1), which is the best sentence to add? 18

- ① Museums admit that they should be to blame for this.
- ② Museums prevent this by providing a proper environment.
- ③ Museums try to make this known to many people.
- ④ Museums use special techniques to make this happen.

問2 Based on comment (2), which is the best expression to add? 19

- ① as a result
- ② for instance
- ③ in contrast
- ④ moreover

問3 Based on comment (3), which is the most appropriate way to rewrite the topic sentence? 20

- ① are located in big cities
- ② create a new trend
- ③ improve local employment
- ④ lead to increased tourism

問4 Based on comment (4), which is the best replacement? 21

- ① bring profits to the local communities
- ② collect the latest information from around the world
- ③ help visitors learn about the past
- ④ provide a standard educational system

第5問 (配点 16)

Your teacher has asked you to read two articles about anger. You will discuss what you learned in your next class.

Feeling Angry

Arnold Stallone

Science Teacher, Rock City High School

Pretty much everyone feels angry sometimes. It doesn't mean you're a bad person. Some feelings of anger come from not being in control. Sometimes it really does feel as if the world is against you, when you try to do your best and things still go wrong or you get into trouble for something that feels unfair.

Anger is an instinctive reaction, a very powerful automatic response which begins in the emotional parts of your brain, particularly a part called the amygdala. The amygdala responds instantly and you feel a surge of anger before the more "thinking" parts of your brain have stepped in to rationalize or control it. We know that the amygdala and other emotional areas are well-developed in teenagers (in fact, from birth) but that the controlling prefrontal cortex is less well-developed.

Emotions are also affected by hormones, some of which go up and down wildly during adolescence in both boys and girls. An increase of testosterone, the mostly male hormone, can cause aggression and the desire to lash out and fight. And swings in levels of oestrogen and progesterone can affect emotions and behavior in girls, sometimes leading to the very distressing condition called PMS. Hormones are powerful and important chemicals that we can't control by will-power, though we can learn to control our reactions. Once you realize that some of your feelings are caused by chemicals in your body and brain, you'll find it easier to predict when you'll feel bad and then you will be better able to control your reactions. Also, just knowing that something has a physical cause can make you less stressed about it.

So, anger is normal. But feeling angry very often or all the time is not a good

thing; it will distract you from focusing properly and may harm relationships with friends and family. Not being able to control your anger and perhaps harming someone else or yourself is definitely something you want to avoid.

Continued anger is sometimes a sign of depression. Also, research suggests that boys and men often express depression through anger, perhaps more so than girls and women, whose depression looks more obviously like sadness and feeling low.

The Happiness Hormone

Harrison Willis

Professor, Rock City University

I agree with Mr. Stallone's idea that feeling angry very often or all the time is not a good thing. In order to cooperate with others and maintain a good relationship, we must learn to deal with anger. However, I was surprised at the statement that we cannot control hormones by will-power. There have been various experiments proving that humans have the ability to control hormones, and this is one of the most important things in coping with anger effectively.

How do we control hormones? This can easily be understood by imagining ourselves before an important exam or a tennis match. The more we focus on the event, the more energetic and more confident we feel. This is the effect of adrenaline, a hormone that makes our body active.

Another hormone that we can control is serotonin, which makes us feel happy. It is produced in your brain and plays a key role in regulating mood; therefore the lack of serotonin may cause anxiousness or anger.

Let me introduce two ways to increase the amount of serotonin in your body. The first is choosing food rich in protein. Though taking in serotonin directly from food is impossible, you can take in tryptophan, an amino acid which changes into serotonin in your brain. Tryptophan is found mostly in high protein foods such as

tofu and cheese. The second is regular exercise. A good workout tells the body to release tryptophan into your blood. This also causes other amino acids to become less, which creates a good environment for more serotonin to be produced in your brain. One thing you might want to remember is that spending time in the sunshine increases the amount of serotonin. So when you exercise, it is better to do it before dark, ideally in the morning.

All of the above show that we can control the amount of serotonin, the happiness hormone, in our bodies. Therefore your will to change your diet and do exercise can help you handle anger, and can be the first step to leading a cooperative, social life.

問 1 Stallone believes that .

- ① anger can be controlled better if we get enough sleep
- ② anger is not a normal mental condition
- ③ we are likely to get angry when we are hungry
- ④ we may keep being angry when we are depressed

問 2 According to Stallone, emotional parts of a brain such as are well-developed in teenagers, while thinking parts such as are not.

- ① amygdala
- ② oestrogen
- ③ prefrontal cortex
- ④ progesterone
- ⑤ testosterone
- ⑥ tryptophan

問 3 Serotonin is a hormone which .

- ① can be taken directly from food
- ② causes depression as well as anger
- ③ helps us to control negative feelings
- ④ is found basically in females only

問 4 Both writers agree that .

- ① anger often leads to a lack of exercise
- ② long-term anger ought to be avoided
- ③ more women suffer from depression than men
- ④ we must not get angry even if the world is against us

問 5 A difference of the opinions between the two writers is whether or not.

- ① boys and girls have the same mechanism about anger
- ② feeling angry all the time is a bad thing
- ③ food with high adrenaline is effective against depression
- ④ we can control hormones by strength of will

第6問 (配点 15)

Your English teacher has told everyone in your class to find an interesting story and present it to a discussion group, using notes. You have found a story written by a high school student in the UK.

Be Honest with Yourself

George Thomas

At dinner on my fifteenth birthday, I made a speech in front of my parents. "I'll work harder on my study this year," I said, "to get a good grade." My father, nodding with satisfaction, said, "Now is an important time in your life, George. Work hard for the exam next year." He went on to point out my poor scores in the recent tests and stress the importance of being honest and diligent, so that by the time we started eating, the food had already gone cold. At the dinner table, my father and mother mostly talked about my test scores and my future career, which I listened to quietly.

I was going to take a national exam the next year, at the age of sixteen. The exam is important for students who want to go on to higher education. My future dream had always been to be a doctor since I was small, and the exam meant a great deal to me. My parents cared about my schoolwork very much, probably more than I did: "Listen to your teachers carefully in class and review each class at home." "Don't leave what you don't understand as it is." "Are you tired? It's important to refresh your body and mind." ... Probably all of them were right, and I could only answer, "OK, I know."

When the summer vacation was around the corner, I asked my parents if I could go for a two-day trip with my friends. My mother frowned and said, "But we've made a study plan for the summer. You have a tutor three times a week. You need time to review by yourself and..." "Just three days," I said. "You always say it's important to refresh my mind. It'll help me feel refreshed and concentrate on my study." My parents finally let me go for a trip on condition that I wouldn't fall behind schedule.

One morning in August, I set out on a trip — alone. I had long been determined to travel by myself at the age of sixteen like Joseph, the main character in *Summer Adventure of Joseph Bronson*, one of my favourite stories. Joseph, a sixteen-year-old boy living in the countryside of England, hitchhiked around the country by himself. He met various people on the way, learning a lot about life, friendship and love. I had been dreaming of making a trip as he did since I first read it when I was nine. I didn't tell my parents that I was going alone because, if I had, they wouldn't have given permission. I felt guilty, but realising my long-held ambition was much more important.

After leaving home, I walked to Aisby, the next town, and held up a sign saying "York" beside the road. In fact, the purpose of my trip was to travel by hitchhiking and I didn't care where I was going. I just thought that York would be a common destination for vehicles running there. After I saw dozens of cars passing by, a blue family car stopped in front of me. In the car were a middle-aged couple, probably a little younger than my parents. A man, who was the driver, said, "We're going to Holden. Is it OK with you?" Holden is a small town on the way to York. I said thank you and got into the car. When they asked me why I was hitchhiking, I answered that I was visiting my grandmother living in York. Talking with the kind man and woman, I was excited that one of my dreams was coming true. After arriving in Holden, I took a walk around, hitchhiked to the suburb of York in a car of another kind driver, and stayed at a small hostel there.

The next morning, a large delivery van stopped to pick me up. To my surprise, the driver was a young woman — probably in her late twenties or early thirties. Ella, the driver, was a friendly and talkative woman. As soon as I got into the van, she struck up a conversation as if we were old friends; she talked about various things — from her difficult customer and her pretty three-month-old nephew to the recent unusually hot weather. I enjoyed listening to her and found myself telling her about myself. When I said that my future dream was to be a doctor, Ella asked, "Why a doctor?" I answered, "I want to

help people in need." She asked again, "And?" Not figuring out what she meant, I couldn't answer. Ella said, "I mean, there are a lot of occupations you can take to help people in need. Why do you want to be a doctor among others?" "OK, I see. Well..." At that moment, I realised that I hadn't given much thought to this kind of question. My parents always told me to be a doctor, and I accepted it without any doubt. I was at a loss what to say and became less certain about my determination. As if she were reading my mind, Ella said, "I know little about you, so all I can say is, *be honest with yourself*. You choose your way." "So, why did you choose your way as a driver?" I asked. "I always feel thrilled when I'm driving a large car. That's it. My parents were against my being a truck driver at first, but now they think it can't be helped," she replied with a smile.

After saying goodbye to Ella, two other drivers gave me a ride, and I safely came home. As I expected, my lie became known to my parents right away and they got mad at me. "I always tell you to be *honest*. Why don't you understand?" I had no choice but to apologise for what I had done; I knew that I was totally to blame. They said that I couldn't go out without permission any more during the summer vacation. I spent the rest of the summer studying in the house.

Now I study at high school. Ella's words, "be honest with yourself," have kept occurring to my mind repeatedly since we talked in her van. I have been thinking about what I really want to do — what makes me feel thrilled. I am curious about how machines and robots work, so mechanics or robotics might be a good choice for my career. At the same time, being a doctor is still attractive. I haven't told my parents what I'm thinking about, but someday I will tell them about my true determination.

Your notes :

Be Honest with Yourself

About the author (George Thomas)

- Studying hard to be a doctor in the future.
- Went hitchhiking by himself because .

Other important people

- George's parents: Strict with his study and caring about his future very much.
- Ella: A truck driver, who .

Events around his memorable trip in summer

→ → →

What George realised after having a conversation with Ella

-

What we can learn from this story

-
-

問1 Choose the best option for **28**.

- ① he decided to find out what he would do in the future
- ② he hoped to escape from his stressful life
- ③ he planned to go to see his grandmother living in a distant place
- ④ he wanted to have an experience similar to a story character's

問2 Choose the best option for **29**.

- ① advised him to travel alone and meet a lot of people
- ② asked him why he didn't get along with his parents
- ③ gave him an opportunity to think twice about his dream
- ④ made him realise how lazy he was in study

問3 Choose four out of the five options (①~⑤) and rearrange them in the order they happened.

30 → **31** → **32** → **33**

- ① Apologised to his parents for telling a lie
- ② Asked his parents if he could make a trip
- ③ Hitched a ride in a kind couple's car
- ④ Read a book on how doctors save people
- ⑤ Talked about his dream to a female driver

問4 Choose the best option for **34**.

- ① He hadn't been fully aware of the dangers of travelling alone.
- ② He hadn't been truly honest with his parents about his trip.
- ③ He hadn't thought seriously enough about his future career.
- ④ He hadn't worked so hard as to make his dream come true.

問5 Choose the best two options for **35** and **36**. (The order does not matter.)

- ① A stranger can have a great effect on our way of thinking.
- ② Confidence is important in persuading other people.
- ③ Expressing your goal to others is a good way to achieve it.
- ④ Sticking to one goal is more likely to lead to success.
- ⑤ We should follow our own heart in determining our future.

第7問 (配点 12)

In history class, your study group is going to give a presentation on changes in society. You have found an article you want to share with your group. Complete the summary notes for your next meeting.

The Luddite Movement

When we think about technological advancement and how people react to it, there are lessons to be learned from history, one of which is the Luddite movement. It was named after Ned Ludd, an Englishman who is said to have destroyed machines that took away his job. The Luddite movement took place in England in the early 19th century, when workers, especially those who had high skill in the cloth-making industry, took part in the destruction of machines for fear that new technology would threaten their living. They are called the Luddites.

During this time, a great change was taking place in the cloth-making industry. New machines were introduced that could produce fine cloth, which was possible only by skilled workers until then. The machines promised higher efficiency, increased production, and reduced costs. However, the Luddites saw them as a threat to jobs, wages, and also their pride. This was because machines enabled low-skilled workers to perform just as well as, or even better than, high-skilled ones. As a response to the new technology the Luddites formed groups, broke into factories at night, and destroyed machines so that they could no longer be used.

The Luddite movement gained significant attention and support from workers in the cloth-making industry. The Luddites were seen by some as defenders of traditional and skilled labor against the cold, cruel machines of the industrial revolution. However, the government and factory owners saw them as criminals and a threat to society. They responded with force, passing strict laws and sending in the military to stop the movement. The Luddites were caught and severely punished. The movement grew less and less frequent, and factory owners rebuilt

their factories and machines. In addition, many workers eventually adapted to the change and found new jobs in the technologically advanced society.

The Luddite movement failed to achieve its goals but played an important role in shaping our modern society. It proved how large the impact of technological advancement could be, and the need to protect workers during times of rapid change. Today, the term "Luddite" is used all over the world to describe people who resist or fear technological advancement. Though the time when people destroyed machines is long gone, the fear for new technologies is as great as ever. The lesson Ned Ludd left us is still alive to this day.

Your summary notes:

The Luddite Movement	
Introduction	<ul style="list-style-type: none"> ◆ A social movement in early 19th-century England against the use of machines ◆ The Luddites were <input type="text" value="37"/>.
Facts	<ul style="list-style-type: none"> ◆ New technologies were introduced in the cloth-making industry. ◆ Machines enabled low-skilled workers to perform as well as highly skilled ones. ◆ <input type="text" value="38"/> ◆ <input type="text" value="39"/>
Reasons	<p>The Luddites were concerned that:</p> <ul style="list-style-type: none"> ◆ they might no longer be needed in their workplace. ◆ they would receive less money for their work. ◆ <input type="text" value="40"/>.
Lesson to be learned	<ul style="list-style-type: none"> ◆ <input type="text" value="41"/>

問 1 Choose the best option for **37** on your summary notes.

- ① factory owners
- ② government officials
- ③ highly trained laborers
- ④ unskilled laborers

問 2 Choose the best two options for **38** and **39** on your summary notes. (The order does not matter.)

- ① The Luddites attacked factories in order to protect the natural environment.
- ② The Luddites destroyed new machines that could cause them to lose their jobs.
- ③ The movement caused low-skilled workers to lose new employment opportunities.
- ④ The movement took place less and less frequently because of new government rules.
- ⑤ The movement was named after Ned Ludd, who took away others' jobs.
- ⑥ The movement was supported by factory owners in the cloth-making industry.

問 3 Choose the best option for **40** on your summary notes.

- ① they could no longer be proud of their jobs
- ② they would be required to gain a higher skill
- ③ they would have to replace old machines with newer ones
- ④ they would have to work for longer hours after dark

問 4 Choose the best option for **41** on your summary notes.

- ① Destruction and violence is a great threat to the modern society.
- ② Governments need to protect factory owners as well as workers.
- ③ New technologies should be introduced to make our society richer.
- ④ Society should consider how to protect workers in times of change.

第8問 (配点 15)

You are interested in insects and going to enter a biology presentation contest. You have written the essay below and are making your presentation slides.

When fall comes in Japan, you sometimes hear insects singing beautifully in the grass or on a flower bed. Which insects are good singers? In many cases, as you may guess, crickets are.

Crickets are from 10 mm to 40 mm in length. Their body color is usually black or brown. On the head are two eyes and two antennae. On each side of their body they have three legs, two wings, and a special sense organ called a cercus. Females also have a long tube-shaped organ called an ovipositor, which is used to lay eggs, at the end part of the body. At first sight, crickets may appear to have only one pair of wings, but in fact they have two pairs: a pair in the front and a pair in the back. Since the back wings are folded under the front wings, they may be difficult to find. But having wings doesn't allow them to fly. Rather it is their back legs, which are big and long, that enable them to jump a long distance, as if they were flying. And surprisingly, their ears are located in their front legs — which are very sensitive, allowing them to catch another cricket's song from far away.

As of behavior, crickets love grassy places such as forests and are difficult to find in the daytime because they become active at night. Most of them eat leaves, flowers, other insects, and dead animals, while their natural enemies are spiders, frogs, and birds. Basically they are born in early summer, grow to become adults in one to two months, and die in fall after the females lay eggs. Temperature strongly affects crickets, especially their songs — the cooler it is, the less they sing. For instance, according to an experiment, the average number of times a cricket will sing in 15 seconds is 46 times at 30°C but drops to 19 times at 15°C.

By rubbing their wings together crickets sing or make high-pitched sounds. In fact, the sounds are so high that they cannot be caught by telephones; you can't use the telephone to send their songs to someone else. Similar to other animals, it is

basically the males that sing. The songs are used to attract females, and we have enjoyed listening to their love songs since ancient times. The early records of their songs can be found in the oldest collection of Japanese poems, *Manyoshu*.

In some regions or countries in the world, crickets have been eaten as daily food. Since they have a mild taste, they are sometimes called "land shrimps." Interestingly, their taste is affected by what they eat — if you give them fruit, they will become fruit-flavored. As a source of nutrition, crickets are rich in minerals and vitamins, and contain as much protein as meat such as beef, pork, or chicken.

You may hesitate to eat crickets, especially if you do not like insects, but in recent years they have been in the spotlight around the world as a sustainable source of food. This is because the world population has been increasing dramatically — some experts expect that the number will reach ten billion in 2050, and that we will suffer from serious food crisis in the future. In 2013, FAO (Food and Agriculture Organization) suggested that we make better use of insects as a food source. Crickets are a strong candidate for the following reasons: they need far less space and water than large animals; they produce much less carbon dioxide (CO₂) than pigs or cows; they are easy to reproduce and nutritious. Cricket protein bars, snacks containing cricket powder, are sold in the UK, and in 2020 cricket crackers gathered so much attention in Japan that they were sold out soon after they went on sale. Though their popularity as a food source is still low, and we must find a way to raise a larger number of crickets economically, human beings need to obtain a new and more ecofriendly food source. If you have a chance to eat them, please give it a try, and help save the Earth.

Your presentation slides:

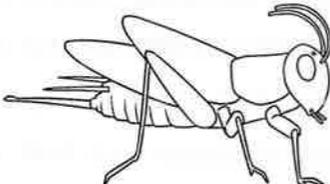
Crickets:
Singers that will Save the Earth

1. Basic Features

- 10 mm-40 mm in length
- black or brown colored
- 42

2. Body Structure (Female)

43



3. Songs

- 44
- 45

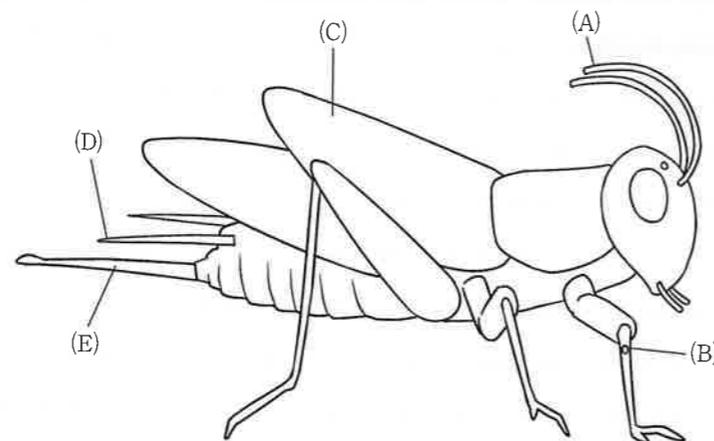


4. As Food

- taste like shrimps
- contain a lot of vitamins and protein
- attract attention as sustainable food
- ecofriendly

5. Power of Crickets

46



問 1 Which of the following is **not** suitable for 42?

- ① easily affected by temperature
- ② eat plants and animals
- ③ have four legs on their bodies
- ④ have two pairs of wings
- ⑤ not active in the daytime

問 2 Complete the blank labels on the illustration of a cricket for the **Body Structure (Female)** slide. 43

- | | | |
|----------------|----------------|----------------|
| ① (A) Antenna | (B) Cercus | (C) Back wing |
| (D) Ear | (E) Ovipositor | |
| ② (A) Antenna | (B) Ear | (C) Front wing |
| (D) Cercus | (E) Ovipositor | |
| ③ (A) Antenna | (B) Ear | (C) Back wing |
| (D) Ovipositor | (E) Cercus | |
| ④ (A) Cercus | (B) Ear | (C) Front wing |
| (D) Ovipositor | (E) Antenna | |
| ⑤ (A) Cercus | (B) Ovipositor | (C) Front wing |
| (D) Ear | (E) Antenna | |

問 3 Which are the best two options for 44 and 45 to complete the **Songs** slide? (The order does not matter.)

- ① As crickets grow older, they begin to sing less often.
- ② Crickets sing more often at 30 °C than at 15 °C .
- ③ Female crickets make short and high sounds to attract males.
- ④ Some people become nervous or irritated when they hear crickets singing.
- ⑤ There are some classical works in literature which describe crickets' songs.

問 4 Which is the best statement for the last slide? 46

- ① Although crickets have the potential to save the world, we should pay more attention to the danger of eating insects.
- ② Crickets as food are expected to save the planet in the future because they have helped us solve a serious food crisis in the world.
- ③ It is true that some people do not want to eat crickets, but crickets can be a global food source in the future and are worth eating.
- ④ Recently cricket food has been so popular around the world that animal meat will be completely replaced in the future.

問 5 What can you infer about the life cycle of crickets? 47

- ① It is impossible for adult crickets to survive winter.
- ② It takes two to three weeks for crickets to become adults.
- ③ On average adult crickets live for a few years.
- ④ The life cycle of crickets is yet to be made clear.