

英語

(医学部)

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1

次の英文を読み、問3、問4、問8、問12は問い合わせに答え、問1、問2、問5～問7、問9～問11は文を完成させなさい。答えは最も適切なものを、それぞれA～Eの中から一つ選びなさい。問13は指示に従ってTかFを選びなさい。

The concept of keeping fish for viewing pleasure rather than just harvesting them for nourishment originated in ancient Korea, China, and Japan, where ornamental varieties of carp were valued and kept in ceramic bowls. By the 17th century, the fish-keeping culture of East Asia had reached Europe, where it continued to evolve. In the mid-19th century, a series of cultural, scientific, and social circumstances converged to create an aquarium mania in the U.K.

Before the Industrial Revolution of the 1800s, the oceans had long been seen in the West as frightening places where monsters lurked. In Greek mythology, the god Poseidon, the ruler of the seas, was often depicted as an angry, unpredictable force who could summon powerful storms causing death and destruction. A 5th-century BCE Bible story featured the tale of a man named Jonah being eaten by a whale. A thousand years later, in the Middle Ages, sailors and others, influenced by folklore, continued to fear the ocean. This contributed to a situation in which more was known about the sun and the moon than about the underwater world. While astronomers at the time were making great strides in mapping the galaxy, travelers and writers were sharing their traumatic experiences about life on the open seas. [1], however, scientific minds sought to unravel the mysteries of the seas through the systematic collection and documentation of marine life.

A combination of innovations in the 19th century helped set the stage for this research, making it possible for aquatic plants and creatures to be displayed around the country. For one, the vast network of railways being built facilitated the transport of temperature-controlled seawater from the coast to cities around the U.K. For another, advances in glass manufacturing meant that clearer plates of glass started to be produced on an industrial scale, making it cheaper and more accessible. Researchers were then able to use this glass in constructing rectangular tanks that could be filled with seawater. The clear glass afforded undistorted views of the marine specimens in the tanks.

The marine zoologist Philip Henry Gosse opened the Fish House at London Zoo in 1853. It contained 300 marine species, including 58 species of fish kept in several aquarium tanks under one roof. The Fish House was originally described as an *aquatic vivarium*, but, in 1854, Gosse ^(A)truncated the phrase, coining the term “aquarium.” The building was intended to be a means of public education by which people could learn about underwater life without having to enter the ocean to experience it. Gosse was instrumental in the development of techniques to ensure that the marine life in the tanks could absorb an adequate amount of oxygen, while plants were provided with enough carbonic acid to thrive. The Fish House became a popular destination and the concept spread to other cities in Europe and North America.

The late 19th century gave rise to public aquariums as centers for scientific study. As their popularity grew, so did the demand for exotic species of fish and other marine creatures. This wave of exploration and discovery was led by scientists and adventurers like Gosse and Henry Lee, who set out to collect and import different types of marine life from ^(B)far-flung corners of the world, allowing visitors to see firsthand the diversity and complexity of marine ecosystems. Aquariums provided controlled environments in which to study a full array of marine life

behavior including feeding, reproduction, and survival mechanisms. Both Gosse and Lee wrote books detailing their observations, paving the way for further research in aquaculture, water quality, and early attempts at marine conservation.

This trend was not limited to large public aquariums. Increased time for leisure pastimes in the late 1800s resulted in many of the wealthier families in the U.K. bringing aquatic life into their homes. Many private homes already featured spacious, sunny rooms that hosted rare, imported plants, and aquariums became sought-after additions to these houses. Given the great expense, owning an aquarium was a luxury only upper-class families could afford; having one signified status and worldliness.

Although public aquariums fell out of fashion over the course of the first half of the 20th century, their development marked a significant milestone in the study and appreciation of marine life. Their popularity proved to be a catalyst in helping people overcome the fear and mystery of the world underneath the water and highlighted future opportunities for enjoyment and the advancement of science and conservation.

問1 According to the first paragraph, _____.

- ア. observing fish for entertainment started in the 17th century
- イ. the culture of watching marine life at home began in Europe
- ウ. the first fish kept for viewing were placed in glass jars
- エ. interest in aquariums in the U.K. increased in the 1800s

問2 The second paragraph suggests that _____.

- ア. sailors were afraid of what things might be living under the water
- イ. people in ancient Greece believed that Poseiden would protect them
- ウ. writers in the 1800s described the oceans as safe places
- エ. astronomers made predictions about storms on the oceans

問3 Which of the following best replaces [1] in the second paragraph?

- ア. Additionally
- イ. Clearly
- ウ. Eventually
- エ. Typically

問4 According to the third paragraph, which statement is NOT true about scientific developments in the 19th century?

- ア. Technology helped enable the public exhibition of marine life.
- イ. It became easier to buy plate glass for use in building aquariums.
- ウ. Railway improvements helped with the transportation of seawater.
- エ. Water for the aquariums was collected from freshwater sources.

問5 In the fourth paragraph, truncated is closest in meaning to _____.

(A)

- ア. informed
- イ. promoted
- ウ. registered
- エ. shortened

問6 The main purpose of the fourth paragraph is to _____.

- ア. describe an early public aquarium and its significance
- イ. illustrate the enthusiasm of visitors to the Fish House
- ウ. show how the concept of aquariums spread from the U.K. to Europe
- エ. explain how marine plants and animals were kept alive in tanks

問7 According to the fourth paragraph, the Fish House _____.

- ア. was described as an “aquarium” at its opening
- イ. displayed 358 varieties of fish in the tanks
- ウ. provided a way to educate people about marine life
- エ. gave visitors the chance to swim in the sea

問8 Which statement best summarizes the main idea of the fifth paragraph?

- ア. Gosse and Lee collected specimens of marine life.
- イ. Exotic species of imported aquatic life were sold to the public.
- ウ. Aquariums contributed to a boom in marine life research.
- エ. Books were written based on the development of public aquariums.

問9 In the fifth paragraph, far-flung corners is closest in meaning to _____.

(B)

- ア. neighboring oceans
- イ. familiar areas
- ウ. underwater regions
- エ. remote places

問10 According to the sixth paragraph, wealthy families in the mid-19th century _____.

- ア. profited from building public aquariums in the U.K.
- イ. obtained aquariums, which were seen as symbols of class
- ウ. built large, sunlit houses in which to maintain marine life
- エ. funded research on marine life and aquatic culture

問11 According to the final paragraph, public aquariums _____.

- ア. resulted in advancements in transportation around the U.K.
- イ. presented possibilities for future research and entertainment
- ウ. taught visitors that oceans were dark, mysterious places
- エ. continued to multiply from approximately 1900 to 1950

問12 Which would be the best title for the passage?

- ア. How Did We Overcome Our Fear of Oceans?
- イ. Uses of Plate Glass in Constructing Aquariums
- ウ. Aquatic Culture: The Global Rise and Fall
- エ. Bringing Marine Life to the General Public

問13 According to the passage, mark "T" if the statement is true and mark "F" if the statement is false.

- 1. The practice of keeping marine life in the U.K. spread to Asia in the 19th century.
- 2. Jonah was a sailor in the Middle Ages who was eaten by a whale.
- 3. Gosse helped develop a way to provide fish in the tanks with enough oxygen to survive.
- 4. The success of the Fish House inspired similar projects in other countries.

2

次の1～10の英文の空所に入る最も適切な語(句)を、それぞれA～Eの中から一つ選びなさい。

1. Please listen carefully; I don't want there () any misunderstanding between us.

ア. is イ. will be ウ. was エ. to be

2. () you come across a suspicious package, do not open it; instead, notify the police.

ア. Could イ. Might ウ. Should エ. Would

3. Linda insists that her father () present at tomorrow's meeting, no matter how busy he is.

ア. was イ. has been ウ. had been エ. be

4. Work is not the only object of life () than play is.

ア. more イ. no less ウ. more or less エ. any more

5. Late () it was, the group of climbers set out for the summit.

ア. so イ. as ウ. when エ. how

6. Last month, similar accidents occurred one after another in quick ().

ア. succeed イ. successful ウ. successfully エ. succession

7. Ms. Bolin gave her speech in French, () was impossible for some audience members to understand.

ア. who イ. where ウ. which エ. when

8. Nothing he talked about regarding theoretical models at the conference was () any interest to today's audience.

ア. of イ. at ウ. in エ. for

9. Although he had made a fortune in business, he couldn't help but () about the future.

ア. worried イ. was worrying ウ. worry エ. being worried

10. No () appeared at the end of the street than his dog ran to meet him.

ア. sooner had he イ. he had sooner ウ. he sooner had エ. sooner he had

次の1～10の英文を読み、下線部の意味に最も近い語(句)を、それぞれA～Eの中から一つ選びなさい。

1. To master Spanish grammar, a preliminary step is to grasp its basic sentence structures.

ア. an obvious イ. an exciting ウ. an administrative エ. an initial

2. Before the national budget is announced every year, a lot of speculation about it appears in the media.

ア. polling イ. hypothesizing ウ. complaining エ. monitoring

3. Lucia gave in to the temptation of the new season's flavors and bought ice cream for herself and her brother.

ア. attractiveness イ. costliness ウ. brightness エ. recklessness

4. The 1945 reform allowing all Japanese men and women to vote was a consequential ruling.

ア. strict イ. temporary ウ. popular エ. significant

5. Many members left the rowing club due to friction between the manager and team.

ア. hesitation イ. directives ウ. conflict エ. incomprehension

6. Changes to the hospital were made after the media drew attention to its poor accessibility for people in wheelchairs.

ア. programmed イ. opposed ウ. anticipated エ. highlighted

7. I'm not sure whether humans intuitively know how to swim from birth.

ア. instinctively イ. invariably ウ. informally エ. inevitably

8. The two nations were at war for ten years before one finally surrendered.

ア. resettled イ. battled ウ. yielded エ. negotiated

9. Air conditioning is one innovation that has had a major impact on our lives.

ア. injection イ. invention ウ. inspection エ. intention

10. Currently, there is a lot of discussion about the ethical use of artificial intelligence.

ア. moral イ. confidential ウ. impressive エ. high-tech

4

次の2つの会話文を読み、1, 2, 6は問い合わせに答え、3～5, 7, 8は意味・内容に合うように文を完成させなさい。

答えは最も適切なものを、それぞれA～Eの中から一つ選びなさい。

Postal worker: Hi. What can I do for you this morning?

Denise: Hi there. We need to send these documents to Australia, and we've got some questions about the available shipping options and rates.

Postal worker: Sure. We offer a range of international services. Is this the package here?

Don: Yeah, it's a pretty large package. I remember the last time I sent one; it was based on weight. Is that still the case?

Postal worker: Ah, that changed last year. It's size *and* weight now. Are these your personal documents?

Don: No, they belong to a former employee of ours. They're mostly just reference materials he needs for his new job over there that he left behind.

Postal worker: Okay, let's see. It's 30 by 30 by 20 centimeters. That might qualify for our medium-package option because the total dimensions are under 100 centimeters, as long as the weight is under eight kilograms. Yeah, it's six kilograms, so we can send it as a medium package. Also, because you're sending this abroad, you have to fill out these forms and list the contents of the box for customs purposes.

Denise: It's a good thing we haven't taped it up yet. Okay, well it looks like three books and several file folders. Oh, wait, there's a wallet in one of the file folders!

Don: What? Oh, no. There are some credit cards and personal identification inside and almost \$100 in cash here! Jack packed the box himself. I mean, he was in such a rush to leave last week that we agreed to send it to him, but he didn't mention anything about a wallet.

Postal worker: That's a problem. Sorry, but we can't send any personal identification, credit cards, or cash. We can send the empty wallet with the books and the documents, though.

Denise: He must be racking his brain to remember where he saw it last; I'd be in a panic if I were him!

Don: It looks like an old wallet. Maybe he doesn't even know it's with these other things.

Denise: All right. I guess there's no choice here. We'll take the wallet home and email him about it. Do you think we should send everything else?

Don: Definitely. We can deal with the wallet later.

Postal worker: If there are no other prohibited items like lighters or batteries, it looks like everything is ready to go.

Don: Great!

Postal worker: We offer different shipping options. Standard shipping usually takes five to ten business days and is the most affordable option. We also offer expedited shipping. It costs more, but it gets there in half the time. In either case, a tracking number is included so you can monitor the progress of the delivery online.

Denise: I think standard shipping should be fine for this.

Postal worker: So, the total comes to \$120 for standard shipping.

Don: Wow. That's steep, but Jack said he'd reimburse me later. Okay, I'll pay by credit card.

1. According to the dialogue, what is true about the package?

- ア. It originally included some items they gave up sending.
- イ. It will be shipped internationally from Australia.
- ウ. It is being sent overseas by expedited shipping.
- エ. It weighs a little more than eight kilograms.

2. According to the dialogue, which of the following is NOT true about Jack?

- ア. He is the owner of the contents of the box.
- イ. He used to be Don and Denise's boss.
- ウ. He will pay Don for the shipping cost.
- エ. He put the documents in the box himself.

3. When Denise says, "racking his brain," she most likely means _____.

- ア. hurrying
- イ. contacting others
- ウ. unpacking
- エ. thinking hard

4. According to the dialogue, _____.

- ア. customs forms must be completed for all domestic packages
- イ. standard shipping packages do not include tracking numbers
- ウ. expedited packages generally arrive in five business days at most
- エ. personal identification can be sent in standard shipping packages

Michelle: Hey, honey, are you okay? You don't seem quite yourself these days.

Antonio: Yeah, I've been thinking a lot lately about where I'm going in my life. I don't feel like I'm doing enough to challenge myself or have fun.

Michelle: Even with your big promotion at work?

Antonio: I mean, my 50th birthday is in two weeks, and before I get any older, I want to do something new and exciting. You know, I've always had this wild idea about getting my pilot's license and buying a small plane for some recreational flying.

Michelle: Wow! I have so many concerns about that, mostly about your safety! You're not the best driver on the road.

Antonio: Relax! They say that flying is less dangerous than driving a car. I'd be trained and licensed to fly. And I'd take all the necessary precautions, like checking the weather and doing routine maintenance checks on the plane.

Michelle: I understand that, but there are other hobbies you could pursue that are less extreme and less expensive. And didn't your doctor say to avoid high-stress activities? Don't you need a medical exam for that kind of thing? Have you thought about taking up golf?

Antonio: The doctor gave me the all-clear two months ago! I know the golf club close to our place is reasonable, and Paul and Andy want me to golf with them there, but it doesn't interest me like flying does. I want to feel alive, and I think flying would help me feel that way.

Michelle: It just seems like a lot of money to spend on something that could take such a long time. How much does it cost to get a pilot's license?

Antonio: Well, getting the license could cost around \$10,000, and a small plane could cost anywhere from \$20,000 to \$100,000, depending on the model and condition.

Michelle: What? We can't afford that right now! We have other expenses to worry about, like the kids' college funds. You know, Teigan will be a freshman next year.

Antonio: I know we'd have to tighten our belts, but I'm making more money now at my job. I can save up for it, and we can take out a bank loan if we need to. I'm sure I could find a used plane for sale online. In the meantime, I can practice with the planes at the flying school.

Michelle: As long as you're sure there'd be no danger, I'd be okay with you taking some flying lessons. But let's hold off on buying a plane for now.

5. According to the dialogue, Michelle is primarily concerned about Antonio's _____.

- ア. money
- イ. health
- ウ. safety
- エ. age

6. According to the dialogue, why doesn't Antonio want to take up golf?

- ア. The club is too far from his house.
- イ. It is too expensive to play regularly.
- ウ. It is not exciting enough for him.
- エ. He doesn't want to play by himself.

7. According to the dialogue, to be able to afford a plane, Antonio suggests _____.

- ア. borrowing some money from a bank
- イ. contacting sellers at the flying school
- ウ. drawing on the family's college funds
- エ. getting a part-time job working online

8. When Antonio says, "we'd have to tighten our belts," he most likely means they would need to _____.

- ア. lose weight
- イ. reduce spending
- ウ. buy clothes
- エ. take lessons

5

次の問1～問4の英文を読み、話の流れに沿って意味が通るように並べ替えた場合、最も適切なものはどれか。それぞれア～エの中から一つ選びなさい。

問1 1. Stoics propose that one should focus on what is within one's control and accept what is beyond one's control calmly.

2. They also believe in the interconnectedness of all things and the idea that one should strive to live in harmony with nature.

3. This emphasis on nature also means living in accordance with one's values and ideals, rather than being driven by external circumstances.

4. Originating in the 3rd century BCE, Stoicism is a school of philosophy that places importance on rationality and virtue in achieving inner peace and living a meaningful life.

ア. 4 → 1 → 2 → 3 イ. 4 → 3 → 1 → 2
 ウ. 4 → 1 → 3 → 2 エ. 4 → 3 → 2 → 1

問2 1. Dark matter is a hypothetical form of matter that is believed to make up about 85% of the matter in the universe.

2. Despite this, it is inferred to exist based on its gravitational effects on visible matter, such as stars and galaxies.

3. Unlike ordinary matter, dark matter does not interact with light or other forms of electromagnetic radiation, which makes it invisible to telescopes and other instruments.

4. Scientists have proposed several theories to explain the nature of dark matter, including the existence of weakly interacting massive particles (WIMPs) and axions.

ア. 1 → 2 → 3 → 4 イ. 1 → 3 → 2 → 4
 ウ. 1 → 2 → 4 → 3 エ. 1 → 3 → 4 → 2

問3 1. The paintings were done by the artist Viktor Hartmann, who was a good friend of Mussorgsky.

2. This musical work, written in 1874, consists of ten unique main themes, each representing a different painting.

3. Modest Mussorgsky (1839-1881) was a Russian composer perhaps most famous for his piano suite *Pictures at an Exhibition*.

4. Mussorgsky had composed the themes based on a memorial exhibition of Hartmann's works.

ア. 3 → 2 → 1 → 4 イ. 3 → 1 → 2 → 4
 ウ. 3 → 2 → 4 → 1 エ. 3 → 1 → 4 → 2

問4 1. This poisonous substance, which can only be delivered by the males, is said to be extremely painful, but not lethal to humans.

2. Looking like a cross between a duck, a beaver, and an otter, the platypus certainly qualifies as a unique animal.

3. It is also one of the rare mammalian species which can defend itself with venom.

4. It is a mammal found in Australia, but, instead of giving birth to live young like most mammals, it lays eggs.

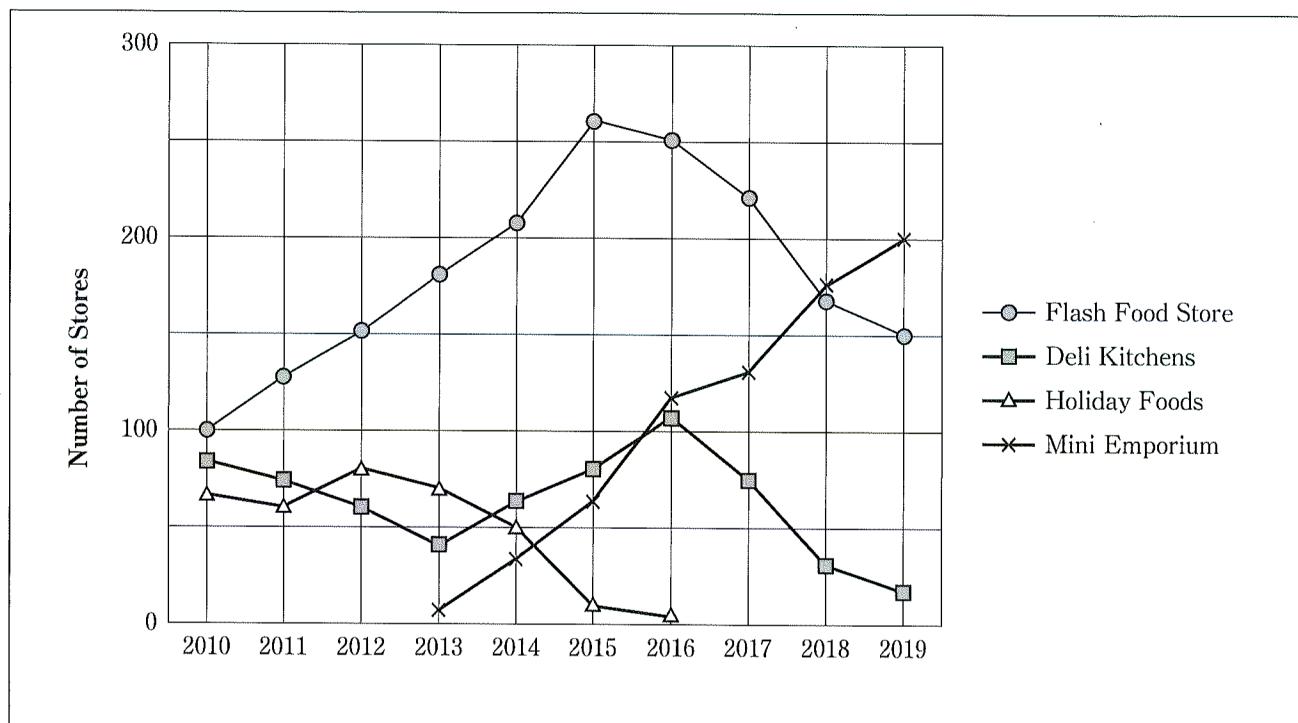
ア. 2 → 1 → 3 → 4 イ. 2 → 4 → 1 → 3

ウ. 2 → 1 → 4 → 3 エ. 2 → 4 → 3 → 1

6

次のグラフを見て、英文の空所(1)～(4)に入る最も適切なものを、それぞれA～Eの中から一つ選びなさい。

The Number of Convenience Stores in Esterhollow (2010–2019)



——上記のグラフは架空のものです——

The above graph shows data collected by the Ministry of Industry in Country X, tracking the number of stores owned by four major convenience store chains in Esterhollow City from 2010 to 2019. The data was collected on April 1st each year. The graph demonstrates that Flash Food Store had (1) number of stores in the city during the first eight years of this period. The difference in the total number of its stores from 2010 to 2015 was (2). The number of Deli Kitchens fell from 2010 until 2013, partly due to changes in company management over this time. As for Holiday Foods, the company (3) operations in 2016. After the first Mini Emporium in the region opened in 2013, the number of Mini Emporium stores increased every year, and in (4), it surpassed the number of Flash Food Stores. This may have been due to their wider range of products.

(1) ア. the lowest	イ. the second-lowest	ウ. the second-highest	エ. the highest
(2) ア. less than 25	イ. about 50	ウ. about 100	エ. more than 150
(3) ア. ceased	イ. maintained	ウ. increased	エ. restarted
(4) ア. 2012	イ. 2014	ウ. 2016	エ. 2018

7

次の英文を読み、下線部(1)と(2)を日本語に訳しなさい。

Science fiction abounds with stories about thinking machines that take over the world. Nowadays, it seems as though this fantasy has become a reality, if not in the literal, then in the figurative sense, as large-language models of artificial intelligence become more and more widespread. The most famous one, ChatGPT, has the fastest-growing user base of any software ever. However, while this new technology can comb through a trillion words in a matter of seconds, it sometimes stumbles over questions that could be answered correctly even by a human child. In one experiment, when an AI model was asked, "If it takes five hours to dry five shirts on a clothesline, how long will it take to dry 30 shirts?" it answered, "It will take 30 hours." In another, when asked, "If I ride my bike across a bridge suspended over nails and broken glass, will I get a flat tire?" the model replied, "Yes, most likely." For all its skills in analyzing and summarizing vast quantities of information, it is clear that artificial intelligence has yet to compensate for its lack of real-world experience and basic common sense.

8

次の文を読み、下線部(1)と(2)を英語に訳しなさい。

"How would you like your mammoth: rare, medium, or well done?" Our ancestors might have asked this question much earlier than previously thought. At a site near the Jordan River in the Middle East, archeologists found teeth from a giant barb, a now-extinct fish that lived in a nearby lake. Charred flint tools were discovered nearby, and the teeth showed signs of exposure to low-temperature fire. This suggests that the fish had been cooked and further implies that the cook had some understanding of food safety. 淡水魚は釣りやすく栄養価が高いが、よく火が通っていなければ寄生虫または細菌感染の危険性を伴う。⁽¹⁾ Other tools and bones from the site are about 780,000 years old, which could mean that the transition from raw to cooked food, previously estimated to be about 300,000 years ago, was wrong by nearly half a million years. 初期人類の食生活の変化は腸の縮小と、それに伴った脳の成長を引き起こし、それが進化の転機となったと考えられている。⁽²⁾ Unfortunately, the invention of writing was still far in the future, so the world's first chef had no way to leave us the recipe for barbecued barb.

