

英語（工学部・情報科学部・知的財産学部）

I 次の会話を読み、下記の設問に答えよ。（配点 25）

- Bob: Hi, Sae. Do you have anything interesting planned for the summer vacation?
- Sae: Oh, hi Bob! As a matter of fact, I do. Katsuya and I are finally going to Europe on our honeymoon!
- Bob: I thought you two got married last year?
- Sae: Yeah, it was last year in November, but since then neither of us have been able to leave Japan. I've been too busy at work, and Katsuya's mom was really sick, so he didn't want to travel abroad.
- Bob: Oh! What a shame! 1
- Sae: Yes. She had an operation in May and she's OK now. My project at work is almost finished, so we're looking forward to a nice romantic trip to Paris.
- Bob: Paris! That sounds amazing. What dates will you be there?
- Sae: We'll be there from August 7 until August 14. I can't wait! 2 to Paris since the first time when I was a student, so I'm looking forward to walking the streets again and visiting my favorite cafes.
- Bob: Of course! You lived in Paris for a semester while you were studying, didn't you? Actually, I'll be in Germany around that time, too. We should meet up in Paris for a day or two, unless you two wanted to be alone on your honeymoon?
- Sae: No! That sounds great. We should hang out together! Do you know Paris well?
- Bob: No, I've never been there before, so it would be really cool if you could show me around.
- Sae: Fantastic! Why don't the three of us have lunch together next week, and then we can plan where to meet?

(1) 空所 1 と 2 に入る最も適切なものを次の中からそれぞれ1つ選び、その番号をマークせよ。

- | | | |
|---|----------------------------|-------------------------------|
| <input style="width: 40px; height: 15px;" type="text"/> 1 | ① Katsuya must be pleased. | ② How long will she stay for? |
| | ③ Is she better? | ④ I knew about that. |
| <input style="width: 40px; height: 15px;" type="text"/> 2 | ① I went | ② I was going |
| | ③ I haven't been | ④ I didn't go |

(2) 会話の内容に合うように、次の英文の空所に入る最も適切なものを下記の中から1つ選び、その番号をマークせよ。

- Katsuya could not travel because 3
- | | |
|--------------------------------|------------------------------|
| ① he was too busy with his job | ② he does not like traveling |
| ③ he had to have surgery | ④ one of his parents was ill |

(3) 会話の内容に合うように、次の1)と2)の問いの答えとして最も適切なものを下記の中からそれぞれ1つ選び、その番号をマークせよ。

1) Which of the following statements is true about Sae?

- ① She will visit two countries in Europe.
- ② This will be her second time in Paris.
- ③ She knows some cafes in Germany that she likes.
- ④ She will go with her mother-in-law to Paris.

2) Which of the following statements is true about Bob?

- ① He is likely to meet both Katsuya and Sae in Paris.
- ② He might meet Katsuya but not Sae in Paris.
- ③ He will meet neither Katsuya nor Sae in Paris.
- ④ He will meet Sae but not Katsuya in Paris.

II 次は架空のインタビュー記事である。英文を読み、下記の設問に答えよ。(配点 25)

Lindsey Ferguson is a two-time Olympic bronze medalist who competed in both Beijing and London. Last week she announced her retirement from competitive swimming at the age of 25.



Interviewer: Why did you decide to retire? Isn't 25 too young?

Ms. Ferguson: I've been swimming since I was six years old! Twenty-five might seem young, but actually I've been doing this for almost 20 years! I'm very proud of what I've achieved, but to be honest, I'm exhausted and just want to live a normal life for a while.

Interviewer:

Ms. Ferguson: You might think it would be my Olympic medals, but actually I'm most proud of setting up my swimming charity, Old Fish. We run programs to encourage more elderly people to swim.¹⁾ Lots of people stop exercising as they get older, but swimming is great because it's low impact and really helps people to stay healthy, both mentally and physically.

Interviewer: Do you have any regrets?

Ms. Ferguson: Of course, everyone expected me to win gold in London and, in fact, I was the favorite.²⁾ But bronze was the best I could do on the day. I had missed two months of training earlier that year after I damaged my shoulder, but I shouldn't make excuses. I know I did my very best and that's all you can do really.

Interviewer: What are your plans for the future?

Ms. Ferguson: Chocolate and shoes! (laughs) I love chocolate so much, but as an athlete you have to be careful about what you eat. And I'm crazy about high-heeled shoes, but never wore them because I was too worried about getting injured. Actually I was always training, so had nowhere to wear them! On a more serious note, of course, I'll keep working with Old Fish. Also I'd love to try and get more young people swimming, and I'd like to raise money to build more pools in urban areas. I won't rest until everyone's swimming!

(1) 空所 に入る最も適切なものを次の中から1つ選び、その番号をマークせよ。

- ① When did you decide to retire?
- ② What achievement are you most proud of?
- ③ Which medal is more important for you, Beijing or London?
- ④ Is there any chance of you coming back to competitive swimming?

(2) 下線部1) “Old Fish” について、本文の内容に合うものを次の中から1つ選び、その番号をマークせよ。

- ① Ferguson さんが設立にかかわった慈善団体である。
- ② Ferguson さんがイメージキャラクターをつとめる企業である。
- ③ 高齢者に水泳とジョギングを奨励するプログラムを運営している。
- ④ 子供たちのために競技用プールを作ろうと募金活動を行っている。

(3) 下線部2) “the favorite” の意味を次の中から1つ選び、その番号をマークせよ。

- ① 最年長選手 ② 最年少選手
- ③ 最有力候補 ④ 世界記録保持者

(4) Ferguson さんがインタビューで答えた内容として、本文の内容に合うものを次の中から1つ選び、その番号をマークせよ。

- ① 高齢者が水泳をする際には、健康管理を行う専門家が必要である。
- ② 肩のけがが完治する前に無理して練習したことを、いまだに後悔している。
- ③ まわりから金メダルを期待されることが重荷で、ずっと辛い思いをしていた。
- ④ 現役中は、けがを恐れて大好きなハイヒールをはくことができなかった。

(5) 本文の内容に合うように、次の英文の空所に入る最も適切なものを下記の中から1つ選び、その番号をマークせよ。

In the future, Lindsey Ferguson would like to

- ① have children who will become Olympic swimmers
- ② continue her charity work
- ③ become a shoe designer
- ④ build swimming pools in the countryside

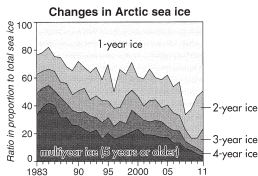
Ⅲ 次の英文とグラフを参照し、下記の設問に答えよ。(配点 25)

In a typical year, the pace of ice recession in the Arctic Ocean slows down in August. But in 2012, the ice continued to recede. The sea ice receded by as much as 100,000 square kilometers a day during the first half of August. This would be like losing an area about the size of Japan in about four days.

There have also been changes in the density of sea ice. In the Arctic Ocean, the freezing season begins around October, with the sea ice reaching its greatest extent in March. The sea ice coverage is usually lowest in September. As some ice remains throughout the year, the Arctic Ocean has been covered with a stable layer of “multiyear ice,” which has been frozen for five years or more.

However, the extent of multiyear ice started decreasing in the 11 of the 1980s, while the extent of “one-year ice,” which is thin and quickly melts, has been increasing. In 2011, more than half of the Arctic Ocean was covered with 12 ice.

According to a report, the average temperature in the Arctic over the past 100 years has risen at a pace nearly twice the global average. The surface area of the sea ice has been diminishing by 2.7 percent every 10 years since 1978 and the pace of recession has been accelerating since the latter half of the 1990s. The sea ice in the Arctic Ocean acts to cool the Earth. If the surface area of the Arctic sea ice decreases, global temperatures may rise more quickly.



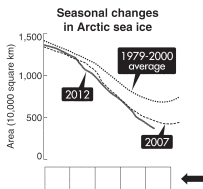
(Source: U.S. National Snow and Ice Data Center)

(Loss of Arctic Ocean sea ice accelerating, The Daily Yomiuri, Sep. 20, 2012)

- (1) グラフを参照し、本文中の空所 11 と 12 に入る最も適切なものを次の中からそれぞれ1つ選び、その番号をマークせよ。

- | | | | | |
|----|-------------|---------------|---------------|-------------|
| 11 | ① beginning | ② former half | ③ latter half | ④ end |
| 12 | ① one-year | ② two-year | ③ three-year | ④ four-year |

- (2) 本文の内容に合うように、次のグラフ中の矢印(←)で指示された枠内に入る最も適切なものを、下記の中から1つ選び、その番号をマークせよ。 13



(Source: U.S. National Snow and Ice Data Center)

①

May	Jun	Jul	Aug	Sep
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②

Jul	Aug	Sep	Oct	Nov
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③

Sep	Oct	Nov	Dec	Jan
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④

Nov	Dec	Jan	Feb	Mar
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- (3) 本文の内容に合うものを次の中から2つ選び、その番号をマークせよ。ただし、解答の順序は問わない。 14 15

- ① 2012年、北極の水は8月に入ると溶けるスピードが例年通り弱まった。
- ② 2012年8月の1ヶ月間で、北極の水は、ちょうど日本の面積分が消失した。
- ③ 「1年氷」は溶けるスピードが早いので、最近は量が減少している。
- ④ 過去100年間において、平均気温が上昇するスピードは、地球全体より北極の方が速かった。
- ⑤ 北極の水が溶けるスピードが加速し始めたのは、1978年頃からである。
- ⑥ 北極の水が減少すると、地球温暖化が加速する可能性がある。

IV 次の英文を読み、下記の設問に答えよ。(配点 55)

Healthy-diet programs promoting the reduction of salt in food have been spreading in households and across communities around Japan. Restaurants and *bento* shops offer a variety of menus geared toward low-salt diets which 16 people reduce their salt intake.

A *Kyushoku* Center in Niigata Prefecture, which makes and delivers *bento* to offices and factories, has developed a new meal—a reduced-calorie “healthy *bento*” — which contains slightly less than 3.5 grams of salt, about one gram lower than a ¹⁾ normal *bento*. In February 2012, the center invited 75 men and women to taste the new *bento*. About 80 percent of them were satisfied with it. ²⁾ The new *bento* included a radish salad flavored with mustard and a cutlet created by sandwiching *shiso* leaves and cheese between two slices of freeze-dried *tofu*. A nutritionist involved in planning the *bento* said, “Our staff tried to vary the tastes and flavors in it.” The center is considering delivering the healthy *bento* to individual customers.

In fiscal 2009, the Niigata prefectural government began its salt reduction campaign to reduce the daily salt intake of residents by two grams: a reduction of one gram from fiscal 2009 to fiscal 2012 and 17 gram from fiscal 2013 to fiscal 2018. The government started the program because of the high number of people in the ⁴⁾ prefecture who die of stomach cancer or strokes, diseases in which excess salt is often a contributing factor, according to prefectural officials. The campaign is aimed at promoting community-wide salt reduction programs, such as working with local companies to popularize soy sauce bottles with reduced-pour spouts that release just one drop at a time.

According to dietary guidelines set by the Health, Labor and Welfare Ministry, the recommended daily intake of salt is less than 9.0 grams for men and less than 7.5 grams for women. A 2010 survey by the ministry on national health and dietary habits showed average daily salt intake per adult to be 11.4 grams for men and 9.8 grams for women. Recently, those numbers have decreased — but only slightly. People ⁵⁾ are dining out and using ready-made dishes more often, which make it difficult to reduce salt intake.

In Hiroshima Prefecture, about 50 restaurants in Kure and surrounding cities are working together to provide menu items with two to three grams of salt. The dishes are also less than 600 kilocalories and are made with local ingredients. In late May 2012, the country’s first-ever event dedicated to highlighting the importance of salt reduction was held in Kure. Restaurants set up stalls to offer low-salt meals, and demonstrations of low-salt cooking were held.

A local physician proposed the project for healthy foods to be offered by the restaurants. "Even when doctors tell people to reduce salt, it's not easy for them to do. I think it's easier if they have tasty, low-salt meals available," she said.

"Excessive salt intake can lead not only to high blood pressure but also to stomach cancer, strokes and heart and bone diseases," said a medical expert. "It's necessary to expand salt-reduction movements nationwide to reduce costs," she said.

(Taking salt off the menu/Community projects aim to achieve healthier diets, The Daily Yomiuri, Jun. 3, 2012)

- (1) 空所 ～ に入る最も適切なものを次の中からそれぞれ1つ選び、その番号をマークせよ。

① help ② helped ③ to help ④ helping

① the one ② another ③ other ④ others

① food ② survey ③ cooking ④ medical

- (2) 下線部1) "a normal *bento*" に含まれている塩分の含有量について、最も適切なものを次の中から1つ選び、その番号をマークせよ。

① 約1.0グラム ② 約2.5グラム

③ 約3.5グラム ④ 約4.5グラム

- (3) 下線部2) "the center" に関わる内容として、最も適切なものを次の中から1つ選び、その番号をマークせよ。

① 学校施設に弁当を配達している。

② 男女それぞれ75名ずつ招いて、弁当を試食してもらった。

③ 試食に提供した弁当に満足と回答しなかった人は、全体の5分の1程度であった。

④ 個人に弁当を配達することは、現在のところ考えていない。

- (4) 下線部3) "The new *bento*" に含まれている料理で、本文に述べられているものはどれか。最も適切なものを次の中から1つ選び、その番号をマークせよ。

① からしとしそソースがかかったカツ

② しそ風味のドレッシングで味付けしたサラダ

③ カツと高野豆腐（フリーズドライの豆腐）とチーズをパンではさんだカツサンド

④ 高野豆腐（フリーズドライの豆腐）にチーズとしそをはさんだカツ

- (5) 下線部 4) の和訳として最も適切なものを次の中から1つ選び、その番号をマークせよ。

22

- ① 塩分の過剰摂取がしばしば要因となる病気である胃がんや脳卒中で亡くなる人の数が県内で多いので、県はそのプログラムを開始した。
 - ② 県がそのプログラムを開始した理由は、県内の人口が増え、胃がんや脳卒中で亡くなる人の数も増加したので、減塩プログラムがしばしば治療に貢献すると考えたからである。
 - ③ 胃がんや脳卒中が原因で亡くなるリスクの高い人を対象に、県が始めたプログラムに基づく減塩の試みが、しばしばそれらの病気の要因を減らすことに貢献した。
 - ④ 県は、胃がんや脳卒中で亡くなった多くの人について調査するプログラムを開始し、その結果、しばしば塩分の過剰摂取が要因であるということがわかった。
- (6) 下線部 5) のような現象が起きている原因として、本文で述べられているものを次の中から1つ選び、その番号をマークせよ。 23

- ① 厚生労働省によって、塩分摂取量のガイドラインが定められたから
 - ② 人々が自分で食事を作ることが減っているから
 - ③ 男性に比べて女性の減塩努力が進んでいないから
 - ④ 減塩する習慣があまり人々の間に広まらないから
- (7) 本文の内容に合うように、次の 1) と 2) の問いの答えとして最も適切なものを、下記の中からそれぞれ1つ選び、その番号をマークせよ。

- 1) Which of the following statements is NOT true about 50 restaurants in Kure and surrounding cities? 24

- ① They collaborate to provide healthy meals.
- ② They are conscious of salt reduction as well as calorie restriction.
- ③ The dishes they provide are made with food produced locally.
- ④ The menu items they provide cut two to three grams of salt.

- 2) Which of the following statements is true about the event held in late May 2012? 25

- ① An event like this has never been held before in Kure.
- ② The small shops set up by the participating restaurants were illuminated.
- ③ The reduced-salt meals were provided by Kure City.
- ④ Cookbooks featuring reduced-salt meals were displayed at the event.

- (8) 本文の内容に合うものを次の中から1つ選び、その番号をマークせよ。
- ① 2009年度に新潟県で始まった減塩キャンペーンは、1日の塩分摂取量を2グラムに制限するというものであった。
 - ② 新潟県の減塩キャンペーンでは、一度に一滴しか出ないよう注ぎ口を狭くしたしょうゆ差しを広めようとする試みを行っている。
 - ③ 広島県呉市のある内科医は、医者が患者に減塩を勧めることが最も効果があると述べている。
 - ④ 呉市の内科医によれば、塩の過剰摂取が要因である病気の中に骨の病気は含まれていない。

V 次の英文を読み、下記の設問に答えよ。(配点 20)

You can find convenience stores almost anywhere in urban Japan. While they are often used for a quick shop or to buy things late at night, they (1) handy
(2) actually have (3) numbers (4) uses (5) many other).

For example, copy machines can be found at most of the convenience stores. As well as having copying, scanning and fax functions, these extremely useful machines can also be used to print out photos from digital cameras.

Some types of copy machine can even be used to purchase various kinds of tickets for concerts, theaters, sports events and so on.

People use convenience stores instead of going to banks. There are 24-hour ATMs inside many convenience stores. This is particularly (1) are closed (2) copy machines
(3) convenient (4) post offices and banks (5) when).

In addition, these days each convenience store chain has its own unique products, such as sweets and snacks. There are also health-oriented convenience stores that deal in low-calorie organic foods. Some stores also have spaces where you can (1) enjoying
(2) a drink (3) while (4) relax (5) whether).

- (1) 下線部 1) ~ 3) を文脈に合うように並べかえる際、不必要なものが 1 つ含まれている。その語句をそれぞれ 1 つ選び、その番号をマークせよ。

下線部 1)

27

下線部 2)

28

下線部 3)

29

- (2) 本文の内容と合わないものを次の中から 1 つ選び、その番号をマークせよ。

30

- ① You can print out photos from your digital camera at convenience stores.
② You can buy low-calorie organic foods at some convenience stores.
③ Some copy machines can also be used to buy various tickets.
④ Some convenience stores can deliver their own unique products to your door.