

2023 年度(令和 5 年度)

## 後 期 日 程

# 英 語 (80 分)

### 注 意 事 項

1. 試験開始の合図があるまで、この問題冊子を開いてはいけません。
2. 問題冊子は、1 ページから 17 ページまであります。解答用紙は、2 枚からなっており、「1」はマーク式、「2」は記述式です。ページの脱落等に気付いたときは、手をあげて監督者に知らせなさい。
3. 監督者の指示に従って、すべての解答用紙の受験番号欄に受験番号を記入し、マーク欄にマークしなさい。
4. 解答はすべて、解答用紙の指定された欄にマーク又は記入しなさい。
5. 受験番号のマーク時及び解答用紙「1」の解答には、必ず黒鉛筆(H, F, HBに限る)及びプラスチック製の消しゴムを使用し、「マーク例」に従って、正しくマークしなさい。黒鉛筆以外のもの(シャープペンシル等)を使用してマークした場合、マークが薄い場合、一部分しかマークしていない場合、訂正箇所を消しゴムできれいに消していない(消し跡が残っている)場合は、マークが正しく読み取れず、採点できないことがあります。
6. 解答用紙の網掛け部分及び※を付した欄には、何も記入してはいけません。
7. 問題冊子の白紙と余白は下書きに適宜利用してもよいが、どのページも切り離してはいけません。
8. 試験終了後、この問題冊子は持ち帰りなさい。

# I

1 Read the following text and answer the question below.

この部分に記載されている文章については、  
著作権上公開することはできません。

【出典(一部改変) : <https://www.independent.co.uk/>】

Which of the following is the best title for the text?

- A. History of Our Food Habits
- B. The Importance of How We Decide What to Eat
- C. How Other People Influence Our Food Choices
- D. Relationships between Human Interaction and Visual Information

2 Read the following text and answer the question below.

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【出典(一部改変) : <https://www.newscientist.com/>】

Which of the following statements is true?

- A. After many trials, the robot made of magnetic slime is now being used in Hong Kong to remove objects swallowed by accident.
- B. The robot is coated with a silicon compound for safety, and the safety of using the robot inside the human body is now thoroughly confirmed.
- C. Valdastri is working with Zhang and has developed a way to track the slime in the body by using an external magnetic field.
- D. Although there is a concern for safety, the idea of a robot made of magnetic slime is promising and could be used in future medical procedures.

3 Read the following text and answer the question below.

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【出典(一部改変) : <https://www.independent.co.uk/>】

Which of the following best fills [ X ]?

- A. operate the vehicle, explore the new environment, and reach the target
- B. be the best navigator among the animals
- C. demonstrate the robotic car and where and how to swim in the arena
- D. follow the vehicle even if it moved in different directions

4 Choose the best answer from A—D to rearrange the following sentences in the best order.

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【出典(一部改変) : <https://www.sciencenews.org/>】

- A. ③—②—⑤—①—④
- B. ③—④—②—①—⑤
- C. ④—②—③—⑤—①
- D. ④—⑤—②—③—①

## II

Read the following text and choose the most appropriate word or phrase from A—D to fill in ( 1 )—( 10 ).

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【出典(一部改変) : <https://www.psypost.org/>】

- (1) A. whether      B. even if      C. if      D. despite  
(2) A. greater      B. less      C. longer      D. sooner  
(3) A. avoided      B. completed      C. excluded      D. reported  
(4) A. asked      B. had      C. got      D. left  
(5) A. expected      B. decided      C. made      D. wished  
(6) A. have      B. having      C. to have      D. had  
(7) A. to continue      B. continuing      C. had continuing      D. continued  
(8) A. tends      B. tended      C. tending      D. were tended  
(9) A. that      B. how much      C. when      D. why  
(10) A. drawing      B. draw      C. having drawing      D. drawn

### Ⅲ

Read the following text and answer the questions below.

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【出典(一部改変) : <https://www.washingtonpost.com/>】

1 Choose the word or phrase from A—D which is closest in meaning to ①—⑤.

- |   |                   |               |                |          |
|---|-------------------|---------------|----------------|----------|
| ① | A. admitted       | B. lifted     | C. built       | D. began |
| ② | A. tropical       | B. dry        | C. moderate    | D. rainy |
| ③ | A. profitable     | B. frightened | C. dull        | D. tough |
| ④ | A. counting on    |               | B. getting on  |          |
|   | C. brushing up on |               | D. carrying on |          |
| ⑤ | A. violations     | B. programs   | C. rules       | D. sets  |

2 Choose the best answer for each question.

- (1) Which is NOT mentioned as a module in an Earthship?
- A. garden
  - B. water
  - C. transportation
  - D. power

- (2) If a conventional house uses 1,800 kilowatt-hours (kWh) of power per month, how much electricity do Earthship owners estimate their homes will use?
- A. 300 kWh
  - B. 600 kWh
  - C. 900 kWh
  - D. 1,200 kWh
- (3) What kind of water is used for outdoor gardening in an Earthship?
- A. clear
  - B. blue
  - C. black
  - D. gray
- (4) What often prevents Reynolds from developing commercial Earthships?
- A. insufficient power supply
  - B. government regulations
  - C. excessive rainfall
  - D. lack of investment
- (5) What was “scandalous” about the strange character in the desert?
- A. being unemployed
  - B. off-road motorcycle racing in the desert
  - C. attracting eyerolls
  - D. constructing buildings out of garbage

## IV

**Answer the questions below.**

1 Taro has a large living room and likes to use lighting to make his space more attractive and comfortable. Last year he chose four lights for his living room very carefully, each with a unique style. He paid a total of 18,000 yen. Then he placed them around the room: a brass floor lamp beside the window, a white compact LED reading light next to the sofa, a silver overhead light above the piano, and a red desk lamp near the computer. Taro bought the overhead light at a secondhand store and it was a real bargain at only 2,000 yen, but it was not the cheapest of the four lights. The desk lamp was the second most expensive and cost 7,000 yen. The floor lamp was a special order and cost eight times as much as the cheapest lamp.

If he had not bought the floor lamp, how much would he have paid in total?

2 Mathilda and Jake are both exercising more. They are also counting their calories carefully. They exercise at the gym every day. Mathilda likes to walk quickly on the running machine for 40 minutes each day while she is listening to music or watching a movie on her tablet. Jake also uses the running machine, but he runs for 30 minutes each day. He uses the rowing machine for 10 minutes each day. Walking on a running machine does not really burn a lot of calories, although it is better than sitting on the sofa and watching online videos. Mathilda walks at a speed of six kilometers per hour at a steady pace, and she is able to burn 360 kcal/h (kilocalories per hour). Jake runs steadily at nine kilometers per hour on the running machine and burns 600 kcal/h. On the rowing machine, Jake burns 600 kcal/h.

After five days, what is the difference between the number of calories burned by Mathilda and the number of calories burned by Jake?

3 Hana is a keen surfer. Every summer, she surfs at four different beaches: Sunshine Beach, Glory Bay, Cricket Strand, and Pirate's Cove. It is important that the beach is fairly long because otherwise it can get too crowded with surfers. She has surfed for many years and loves high waves. She likes to be able to get from the city to her surfboard as quickly as possible, so the distance from the city to the beach is important. Nobody wants to spend all day driving and then only have a short time to enjoy surfing.

Pirate's Cove is the shortest beach, and although it has the highest waves, it gets too crowded in the summer to really enjoy. It is also the furthest from the city.

Unfortunately, the water quality on two of the beaches is not so good: Glory Bay is the closest to the city, but that is probably why the water quality is especially bad and Cricket Strand can get almost as bad after a storm. Hana appreciates the length of both Glory Bay and Cricket Strand, but Glory Bay is a little longer.

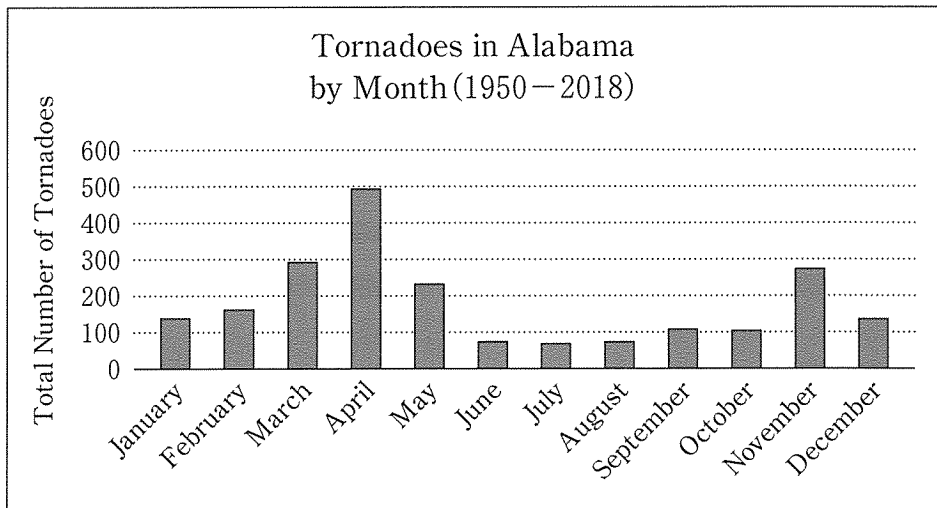
Sunshine Beach is the longest of the four beaches, closer to the city than Cricket Strand, and it also has the best water quality, but the waves at Sunshine Beach are the smallest. The wave height at Cricket Strand is greater than Glory Bay but less than Pirate's Cove.

Hana gave a rank to the four beaches using categories: wave height, distance from city, water quality, and length of beach. In each category, she scored them from 1 to 4, where 4 is the best. Finally, Hana added the points for each category to calculate a total score for each beach.

What was the total score for the best beach?



- 4 Choose the best statement from A—F to describe the graph.



- A. The number of tornadoes rises slightly from January to February before falling dramatically in March.
- B. April has the highest number of tornadoes historically, followed by July.
- C. November shows the greatest number of tornadoes of any month in the fourth quarter of the year.
- D. June, July, and August have a similar number of tornadoes and greatly resemble March and May.
- E. Tornado activity rises steadily at the beginning of the year and bottoms out in April.
- F. The number of tornadoes rises and falls dramatically from June to August, and then peaks in September.

# V

以下の問いに答えなさい。

あなたは、留学中に、ボランティアで地元の小学生の理科学習を手伝っています。ある日、「雨はどこからきて、どこへ行くのですか」と尋ねられました。地球上の水の循環について、下図をもとにして、60語から80語の英語で述べなさい。

