



英 語

(90 分)

環 境 科 学 部

(環境政策・計画学科)

(環境建築デザイン学科)

工 学 部

(電子システム工学科)

人 間 文 化 学 部

人 間 看 護 学 部

注 意 事 項

1. 解答開始の合図があるまで、この問題冊子および解答冊子の中を見てはいけません。
2. 問題は 3 題で、11 ページあります。
3. 解答開始後、解答冊子の所定欄に受験番号、氏名をはっきり記入しなさい。
4. 解答は、問題ごとに、解答冊子の指定された箇所に記入しなさい。解答に関係のないことを書いた答案は無効にすることがあります。
5. 試験終了後、問題冊子は持ち帰りなさい。解答冊子を持ち帰ってはいけません。

I

Read the text and answer the questions below. Write your answers on the answer sheet.

(次の英文を読んで、後の問いに答えよ。答えは解答用紙に記入せよ。)

Jackie Torrence, *The Importance of Pot Liquor*

Q1. Choose the best meaning for underlined word (1).

- ① average ② intend ③ meaningful ④ unkind

Q2. Choose the best meaning for underlined sentence (2).

- ① Her classmates stopped laughing at her.
② Her plans were not successfully accomplished.
③ She could not do exercise in that manner.
④ She was unable to make up her mind about it.

Q3. Choose the best Japanese translation for underlined sentence (3).

- ① 各自がクラス全員の前で自分の書きあげた物語を読むためだと思っていた。
② 各自がクラス全員の前で自分の書きあげた物語を読むよう求められた。
③ クラス全員の前で自分の書きあげた物語を読むことを各自が予期した。
④ クラス全員の前で自分の書きあげた物語を読む目的で各自が期待をつのらせた。

Q4. Choose the best sentence to fill blank (4).

- ① It was a really nice day.
② It was great to have such fun friends.
③ They felt sorry for me.
④ They were totally out of control.

- Q5. Choose the best word(s) to fill blank (5).
- ① am writing ② had written ③ write ④ written
- Q6. Choose the two correct statements about the writer, based on the reading.
- ① Her teacher, Mrs. Pharr, helped her discover her gift for writing.
- ② In elementary school, her weight was about average for her age.
- ③ In fifth grade, she often cried loudly after she arrived home.
- ④ She did not know about her speech problems before elementary school.
- ⑤ She finally found enough courage to read her story aloud to the class.
- ⑥ She was scared to death on Halloween of her classmates' costumes.
- Q7. Choose the best title for the reading.
- ① A Day That Changed My Life
- ② How to Write Creatively
- ③ Life Is Complicated
- ④ The Bullying Problem in Schools

II Read the text and answer the questions below. Write your answers on the answer sheet.

(次の英文を読んで、後の問いに答えよ。答えは解答用紙に記入せよ。)

Advances in technology over the past 200 years have been remarkable and have brought us many benefits. However, the integration of technology into society has not always been smooth. The first industrial revolution began in Britain in the late 18th century. Machines developed at the time could make clothes much more efficiently, easily, and cheaply than before. Even so, not everyone felt happy about this at first. Groups of skilled weavers and textile machine operators, known as Luddites, feared that their jobs would be taken away. They began a labor movement in order to protest and (1) the widespread use of the new technology by factory owners. Their protest actions included destroying machines – crimes for which some Luddites were killed by authorities.

As we now know, these technological advances did not slow down. Over time, they became widely accepted and appreciated. Before long, other innovations like the steam engine were powering heavy machinery across Europe and beyond. The second industrial revolution, toward the end of the 1800s, brought the gasoline engine and the use of electricity. The third industrial revolution, in the late 20th century, produced computers as well as digital technologies and communications. And, recently, experts have declared that developments in artificial intelligence (AI) and advanced robotics have led us into the fourth industrial revolution.

Even today, however, we hear warnings about the potentially harmful effects of contemporary technologies. Some observers claim that the latest AI inventions could have negative impacts on workers, businesses, and society as a whole. The main concern, as in past eras, is that machines will replace humans in the workplace. These observers suggest that a large number of (2) might be lost to AI and robots in the next few years. Taxi and truck drivers, cleaners, and factory workers are among those considered to be at risk.

The fear is even expressed that the AI revolution might lead to mass unemployment. According to some experts, up to 800 million jobs could be lost globally by 2030. Moreover, the workers who will lose their jobs to machines are

likely to be those with fewer skills and less education, increasing the gap between rich and poor. Some people believe that this will create social conflict and instability.

However, we do not necessarily need to take such a negative outlook on the future. While some job losses due to AI-powered technologies will occur, there will not be an overall decrease in employment. New jobs will appear, and humans will always be needed to supervise and maintain the robots. And there are many jobs which machines just cannot do, such as those involving social relationships and interpersonal skills. (3), a machine would have trouble replacing a friendly salesperson, or a kind and compassionate care giver. Indeed, in a recent report for the Organization for Economic Cooperation and Development, (4)researchers predicted that not as many jobs will disappear as had previously been thought.

So how can we make the smoothest possible transition into the new era that the fourth industrial revolution has brought? It is important to recognize and respond to the impacts of technological inventions on people's lives. Governments must provide retraining and new opportunities for those (5). Also, when many jobs disappear in specific regions, it will be necessary to bring new high-tech industry to those towns and cities.

People experienced fears of being displaced by machines during previous industrial revolutions. However, the new technologies actually created new employment opportunities and ended up enhancing our lives significantly. Keeping in mind both the conflicts and the successes of the past, let's cooperate today in creating the best shape for our AI-powered future together.

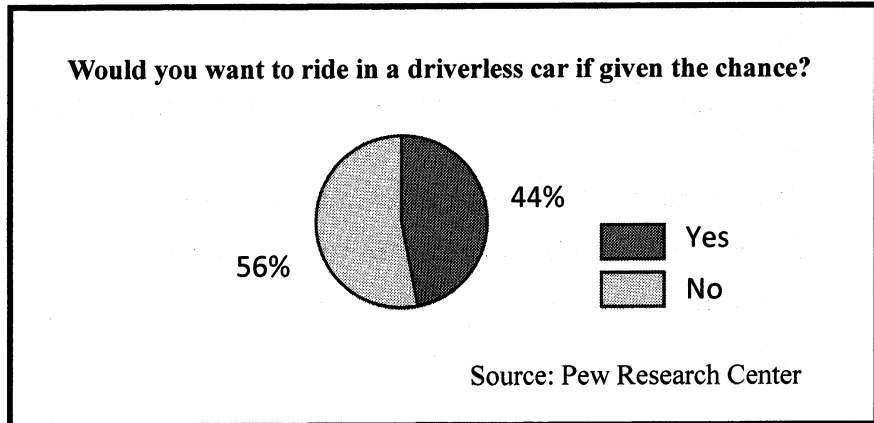
Q1. Choose the best word to fill blank (1).

- ① accept ② agree ③ resist ④ reward

- Q7. Complete the following Japanese translation for underlined section (4).
研究者によれば、 () たくさんの仕事が失われるわけでは
ない。
- Q8. Write the words in the correct order for blank (5).
[jobs / lose / their / who / workers]
- Q9. According to the sixth paragraph, which statement is true? Choose the best answer.
- ① Authorities should ignore areas where many jobs are lost.
 - ② Governments should provide help for workers and regions that lose jobs.
 - ③ People must refuse to recognize and respond to revolutionary changes.
 - ④ We should just allow jobs in cities to disappear.
- Q10. What is the main point of the reading? Choose the best answer.
- ① AI can be smoothly integrated into society, bringing jobs and other benefits.
 - ② AI will probably not be integrated into society smoothly.
 - ③ Unemployment was a problem in the past, but it will not be in the future.
 - ④ Unemployment will increase due to AI and robotics.

Q11. 国際コミュニケーション学科の受験者は (B) に、それ以外の受験者は (A) に答えよ。

(A) [Writing.] There are differing ideas about technology. For example, in a recent survey, people in the United States were asked if they wanted to ride in a driverless car. The results are shown in the pie chart below.

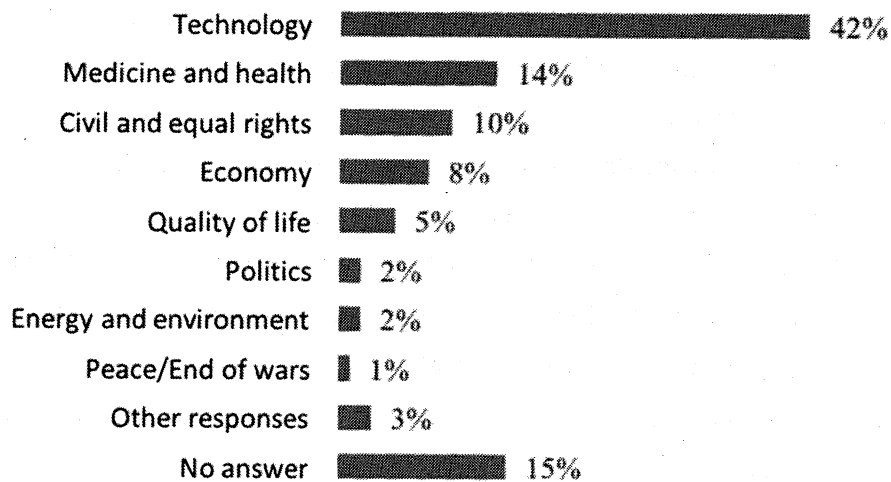


Now, write your own answer to the question: *Would you want to ride in a driverless car if given the chance?* Explain the reason(s) for your answer. Write approximately 50 words in the space on the answer sheet.

- (B) [Writing.] Write a short essay in English. First, summarize the information given in the chart below. Next, discuss one surprising or interesting point about the information. The essay should be about 100 words in length.

Looking back: Biggest improvement to life in the past 50 years

% of U.S. adults who said the biggest improvement to life in America over the past 50 years or so was related to...



Survey of U.S. adults conducted May 30-June 12, 2017.

Note: Figures add up to more than 100% because multiple responses were allowed.

Source: Pew Research Center

III Read the following conversation between two university students. Choose the best expression to fill each blank and write the number on the answer sheet.

(以下は大学生同士の対話である。会話の流れをふまえて空欄 [A] ~ [F] に入れるのに最も適切なものを①~③から選び、その番号を解答用紙に記入せよ。)

Mari: Hi Jack, did you finish your report about whales?

Jack: Oh, for Marine Ecology class? No, not yet. [A] I was hoping to discuss a few points with you, if possible. Do you have a few minutes?

Mari: Sure. What part are you struggling with?

Jack: I still don't understand why whales swim onto beaches. It doesn't make sense. I mean, they all die, right?

Mari: Well, it still seems a bit of a mystery. Scientists have a few different theories, though. [B] the whales might be injured after a ship hits them or a shark attacks them. They can't help but drift onto land.

Jack: That sounds possible in some cases. But [C] mass beachings involving hundreds of whales?

Mari: I don't think anybody really understands what's going on there. But some experts believe that mass beachings are caused by human activity, such as [D]. The sounds of the motors might disturb whales' sonar.

Jack: I read an article that said whale and dolphin beachings have been reported from long ago, even in ancient times. Surely this means that [E].

Mari: It's something to consider. But the frequency of whale beachings is increasing. That's why scientists suspect human activity is responsible.

Jack: Hmm. But, are there really more beachings? Or [F]?

Mari: Good point. You should write that in your report!

- A**
- ① Actually, I'm having trouble getting my ideas together.
 - ② In fact, I plan to take that class next year.
 - ③ Indeed, it took me quite a long time to finish.

- B**
- ① One experiment is that
 - ② One idea is that
 - ③ One mystery is that

- C**
- ① how can we explain
 - ② how many
 - ③ what is the weight of

- D**
- ① disease, or underwater earthquakes
 - ② other kinds of fish, or dolphins
 - ③ pollution, or noise from ships and oil drilling

- E**
- ① humans wrote all those historical reports
 - ② whale beachings are just a natural event
 - ③ whales and dolphins enjoy very long lives

- F**
- ① are scientists the main suspects in these activities
 - ② are they simply reported more by the media
 - ③ have many beaches disappeared through global warming