

1 Answer questions (1)～(5).

(1) Choose the sentence that best fits the blank.

著作権の関係で問題文は掲載できません。

注) *zzzzz's: sleep

- a. But what's the most important aspect of sleep?
- b. But when's the best time to sleep?
- c. But where's the most suitable place to sleep?
- d. But why don't humans remember most of their dreams?

(2) Choose the word that best fits the blank.

著作権の関係で問題文は掲載できません。

- a. how
- b. when
- c. where
- d. which

(3) Choose the phrase that best fits the blank.

A new study has shown that physical activity and exercise are ‘contagious’ because of social media. Researchers at the Massachusetts Institute of Technology (MIT) discovered that people who post details of their exercise patterns and achievements on social media sites motivate and encourage other people to be more active. Researchers tracked the exercise routines of 1.1 million runners over a period of five years. They looked at the geographic location of the runners, their social network use, distance, time, pace and the calories they burned. The researchers concluded that sharing personal exercise data via social media can inspire others to exercise more, exercise harder and do so more competitively.

The journal ‘Nature Communications’ has published the research. The study includes detailed accounts of how inspiring it can be to read about a friend’s physical activity. Researchers said: “On average, an additional kilometre run by friends can inspire someone to run an additional three-tenths of a kilometre, and an additional ten minutes run by friends can inspire someone to run three minutes longer.” The study said social media improved the performance of runners who had been a little slower or less in shape, and of those who were showing signs of overtaking a friend’s performance. Researcher Sinan Aral said: “In general, [], it is likely that you can cause your friends to run more.”

- a . if you exercise less
- b . if you run more
- c . if you study more
- d . if you use social media less

(4) Choose the title that best represents the main idea of the following passage.

Adidas has created a sports shoe from garbage floating in the ocean. The new trainer is part of a project to raise awareness of the serious problem of ocean pollution. Adidas has joined forces with an organisation called Parley, which is dedicated to protecting and preserving the Earth's oceans. Parley's founder Cyrill Gutsch spoke about his organisation's cooperation with Adidas. He said: "Our objective is to boost public awareness and to inspire new collaborations that can contribute to protect and preserve the oceans. We are extremely proud that Adidas is joining us in this mission ... to show that it is possible to turn ocean plastic into something cool."

Garbage in the ocean is a huge problem. UNESCO estimates that in 2006, there were nearly 30,000 pieces of floating plastic for every square kilometre of ocean. Plastic debris kills over a million seabirds and 100,000 marine mammals every year. Adidas used some of this plastic to make its new trainer. The sole of the sneaker is made from sustainable materials, while the upper uses recycled ocean waste. This consisted of plastic and illegal fishing nets. Adidas says it will be releasing a new trainer made from ocean waste later this year. In another green initiative, the sportswear maker said it would be phasing out the use of plastic bags in all Adidas retail stores in the near future.

- a . Adidas to join other shoe companies to design a new trainer
- b . Adidas to make shoes from ocean garbage
- c . Adidas to stop using plastic bags
- d . Ocean garbage a growing problem

- (5) Choose the sentence that is true according to the following passage.

Amazon just unveiled what it describes as the world's most advanced shopping technology. It is the prime feature of its new-concept grocery store that has no queues or checkout counters. It is called Amazon Go and is being trialled in the company's hometown of Seattle. The technology works via an app on a shopper's mobile device. The app automatically checks in when the shopper enters the store. It lets you shop as normal and then scans what you have bought as you leave the store. Amazon then bills you later and the shopping gets charged to your Amazon account. There is no waiting in line, no cashiers, and no being held up by slow customers, credit card transactions or waiting for change.

Amazon Go may revolutionize the high street shopping experience and provide a much-needed boost for brick-and-mortar stores*. The grocery and convenience store markets are extremely tough nuts to crack*. Profit margins are low and competition is intense. However, Amazon seems confident it can change people's shopping habits. Rumours are that the online retail giant has plans for 2,000 grocery stores across the USA. It could also get involved in selling the software for its shopping technology to retailers worldwide. Industry analyst Colin Sebastian suggested Amazon Go could challenge Internet shopping. He said: "It makes it just as convenient, if not more convenient, than online shopping in some cases."

- 注) *brick-and-mortar stores: stores with a physical presence in a building
*tough nuts to crack: difficult problems to solve

- a. Amazon Go is an innovative payment system.
- b. Amazon Go is being used in over 2,000 grocery stores in the USA.
- c. Amazon seems unsure it can succeed in grocery and convenience store markets.
- d. Customers using Amazon Go will pay the cashier in the store.

[出典]

- (1) "Analyze This: Sleep patterns vary widely across the world", Lillian Steenblik Hwang, May 24, 2017, Science News for Students, <https://sciencenewsforstudents.org/blog/analyze/analyze-sleep-patterns-vary-widely-across-world>
- (2) "How Does an Air Conditioner (AC) Work?", Ashish, March 2017, Science ABC, <https://www.scienceabc.com/innovation/air-conditioner-ac-work.html>
- (3) Banville,Sean. "Exercise is contagious because of social media" *BREAKING NEWS ENGLISH.22* April 2017.Copyright©2017 Sean Banville.Used with permission
- (4) Banville,Sean. "Adidas to make shoes from ocean garbage" *BREAKING NEWS ENGLISH.9* July 2015.Copyright©2015 Sean Banville.Used with permission
- (5) Banville,Sean. "New store lets you shop, walk out and pay later" *BREAKING NEWS ENGLISH.7* December 2016.Copyright©2016 Sean Banville.Used with permission

2 Read the following article and answer questions (1) ~ (5).

- [1] Fukuoka sits in a pocket of land on the northern coast of Kyushu, Japan's third-largest island. The city's most famous landmark is Fukuoka Tower, and while it is not the prettiest of buildings, it offers sweeping views of the city to the south, east and west.
- [2] Urban sprawl*? Yes, but the kind that is neatly contained by the mountains that circle the city. If Tokyo seems endless, then Fukuoka is manageable; it takes only 12 minutes to get from the city center to the airport, one of the busiest in the world.
- [3] Economically, the city is dwarfed* by Tokyo, but over the past five years Fukuoka has won an enviable reputation as Japan's "startup city." Under the leadership of Mayor Soichiro Takashima, Fukuoka has begun a transformation that has swept up many in startup mania. In March, Bloomberg credited Fukuoka as the city to which Japan's startup founders are flocking, while the more understated CNN made the claim that Fukuoka was "poised to be the country's Silicon Valley." Big words for a small city.
- [4] There's no doubt the city is booming. Fukuoka is the fastest-growing city in Japan outside of Tokyo and, in 2015, it passed Kobe to become Japan's fifth-largest hub. Its position as the closest major city to mainland Asia (it is quicker to get to by plane from Seoul or Shanghai than Tokyo) has allowed the city to position itself as Japan's gateway to the continent.
- [5] On the issue of startups, the city is keen to be seen to be doing all it can to promote the creation of new businesses, going so far as to introduce the "startup visa," aimed at encouraging non-Japanese entrepreneurs to establish their businesses in Fukuoka, and recently opening Fukuoka Growth Next, a public-private startup support facility located in the city center.
- [6] Whether or not these efforts will prove effective is yet to be seen. While there are success stories, no Fukuoka tech startup has reached the holy-grail* "unicorn" status (i.e., been valued over \$1 billion) and, with the exception of a subsidiary of Line, many of the names commonly associated with startup culture (Facebook, Google, Apple) have yet to find a home in the city.

[出典]

"Can Fukuoka live up to the tech startup hype?", OSCAR BOYD, May 24, 2017, The Japan Times, <http://www.japantimes.co.jp/community/2017/05/24/issues/can-fukuoka-live-tech-startup-hype/>, 一部改

- 注) *sprawl: something which has spread in an uncontrolled way
*dwarfed: made to look very small when compared with something else
*holy-grail: very hard to get

- (1) In which of the following paragraphs does the author first introduce the main topic of the article?
- a . Paragraph 1
 - b . Paragraph 2
 - c . Paragraph 3
 - d . Paragraph 4
- (2) In which of the following paragraphs does the author provide information about how the city is helping startups?
- a . Paragraph 3
 - b . Paragraph 4
 - c . Paragraph 5
 - d . Paragraph 6
- (3) In which of the following paragraphs does the author sound unsure about Fukuoka becoming the next great startup city?
- a . Paragraph 3
 - b . Paragraph 4
 - c . Paragraph 5
 - d . Paragraph 6
- (4) According to this article, what is one reason Fukuoka is Japan's gateway to other Asian countries?
- a . Fukuoka is a sprawling city.
 - b . Fukuoka is close to mainland Asia.
 - c . Many companies that are associated with startup culture are in Fukuoka.
 - d . The government is encouraging Japanese companies to move to Fukuoka.
- (5) According to this article, what is the purpose of the "startup visa"?
- a . To attract established Japanese companies to Fukuoka.
 - b . To attract Japanese startup companies to Fukuoka.
 - c . To discourage foreign companies from competing with Japanese companies.
 - d . To encourage foreigners to start businesses in Fukuoka.

3 Follow the directions and write sentences in English.

(1) Write a question to complete the conversation below.

A : I have been looking for a new laptop. How do you like the one that you bought recently?

B : The battery life is great. I can usually use it all day without charging it.

A : Sounds like it might be a good choice. _____

B : It's not that light. I don't think you would want to carry it around in your backpack.

(2) Write a question to complete the conversation below.

A : Have you seen this new band play?

B : No, I haven't, but I'd like to. _____

A : Not very often. This is only the second time they've performed here.

(3) Write a question to complete the conversation below.

A : We've been running every night recently. Would you like to join us sometime?

B : Sorry, but I usually get home from work quite late and I'm exhausted.

A : _____

B : That might be better. I'm usually free on weekends.

(4) Write a complete sentence to answer the following question, using the information written in Japanese.

A : This exam looks really difficult. How many people usually pass it?

B : _____ [10 人にひとり]

A : Wow. Then I'll have to spend a lot of time preparing for it.

(5) Write a complete sentence to answer the following question, using the information written in Japanese.

A : We need some help soon. How quickly can you get here?

B : _____ [約 1 時間]

A : OK. We'll wait here until you arrive.

4 次の語義に当てはまる単語を下の a ~ q の中から一つずつ選び、解答欄に記号で答えなさい。

- (1) belonging to the present time
- (2) to think that something is true, although you have no proof of it
- (3) books and stories about imaginary people and events
- (4) to order not to do
- (5) a very strong and energetic interest
- (6) to bring back the sick to good health
- (7) the mixture of gases surrounding the earth
- (8) something that stops progress or makes it difficult
- (9) believing that good things will happen in the future
- (10) unwilling to talk proudly about your abilities and achievements

- | | | | |
|------------------|---------------|----------------|----------------|
| a . permission | b . modest | c . biography | d . optimistic |
| e . heal | f . resist | g . obstacle | h . fiction |
| i . atmosphere | j . assume | k . reduce | l . definition |
| m . forbid | n . encounter | o . enthusiasm | p . flexible |
| q . contemporary | | | |

5 次の英文を読んで、下の問いに答えなさい。

著作権の関係で問題文は掲載できません。

[出典]

Krumboltz and Levin. *Luck is no Accident making the most of happenstance in your life and career*.
2nd ed, Impact Publishers, October 2010, PP.75-76.

注) *jeopardy: danger

*unanimously: with the agreement of all people involved

英 語 $\frac{10}{10}$

- (1) 下線部 a new attitude about making mistakes とはどのような態度のことか、本文に即して、句読点も含めて、50字以内の日本語で説明しなさい。
- (2) 自分自身の生き方の中で、あなたが最も大切にしていることは何か、50語程度の英語で書きなさい。