

1 Answer questions (1) ~ (5).

(1) Choose the phrase that best fits the blank and completes the topic sentence.

[], according to recently announced Japanese survey results.

The survey was conducted on some 90,000 people in Japan aged 40 to 69 by a team of researchers from the National Cancer Center and the University of Tokyo from 1990 through 2011.

According to the team, the risk of death from these and other diseases was 24 percent lower for those who drink three or four cups of coffee a day than those who rarely drink coffee. The mortality risk of stroke was 43 percent less and that of heart diseases was 36 percent less for frequent coffee drinkers.

The team also said that men who drink five or more cups of green tea a day have a 13 percent less risk of death than those who drink less than a cup.

- a . People who frequently drink coffee or green tea are at lower risk of death from heart diseases or stroke
- b . People who never drink coffee or green tea are at lower risk of death from heart diseases or stroke
- c . People who rarely drink coffee or green tea are at lower risk of death from heart diseases or stroke
- d . There is no correlation between the quantity of coffee or green tea consumed and the risk of death from heart diseases or stroke

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

Scientists have discovered that staying in the cold could help us lose weight. Researchers at the University of California found that exposure to the cold increases levels of a protein that helps form brown fat — the type of fat that generates heat and keeps us warm. Brown fat burns energy, which helps us lose weight. White fat stores excess energy, which results in weight gain. The researchers said that because air conditioning and heating give us constant, comfortable temperatures, our body's need for brown fat has decreased. They found that: “Outdoor workers in northern Finland who are exposed to cold temperatures have a significant amount of brown fat when compared to same-aged indoor workers.”

- a . Air conditioning provides comfortable temperatures
- b . Brown fat burns energy, while white fat stores energy
- c . Finnish workers are exposed to cold temperatures
- d . Keeping cold could keep you thinner

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

Authorities in India expelled 600 high school students for cheating in exams. The pupils used a dangerous way to get help — their parents climbed the school walls and gave answers to questions through the windows. Photos and videos of this illegal technique have gone viral. They show dozens of parents hanging on to the walls three stories up to give answers to their kids. Teachers found many cheat sheets that were made into paper airplanes.

Over 1.4 million 10th graders took the tests across Bihar state. Bihar's education minister said schools faced a difficult job to secure exams. He said: “It's virtually impossible to conduct fair examinations.” It is difficult to monitor parents who take their children to school. Parents helping children cheat is now so [] that police officers work at each school. An official said, “We can't use force to drive away the parents.”

- a . common
- b . difficult
- c . impossible
- d . impressive

(4) Choose the word that is most similar in meaning to the underlined word.

A top technology analyst has warned that the world might not yet be ready for what is called the Internet of Things. This is the next stage of the digital and technological revolution. It will greatly transform our lives via the interconnectedness of all the devices, services and appliances we use in our daily life. The technology research company Gartner predicts that by 2020, nearly 26 billion devices will be on the Internet of Things. All of these things will communicate with each other to make even simple decisions, like ordering a new carton of milk, a seamless experience. The fridge will simply contact the delivery service when it senses stocks need replenishing, and hey presto* — no need to go shopping. The *ComputerWorld* magazine says that while the Internet of Things has “the potential to drive fundamental economic and social change,” there are “serious obstacles” to ensuring the infrastructure of this technological revolution is in place in time.

注) *hey presto: Look!

- a . emptying
- b . filling
- c . selecting
- d . selling

(5) Choose the sentence that is NOT true according to the following passage.

Imagine a new chocolate that keeps you younger looking. It seems too good to be true, but a team of scientists believes they have invented anti-ageing chocolate. A laboratory working with the UK's Cambridge University has been working on a method to keep away wrinkles and keep the skin looking younger. It has called its new product "Esthechoc". This is a combination of the words "esthetic" (meaning all things beautiful) and "chocolate". The new product is also called Cambridge Beauty Chocolate. The makers will start selling it from next month. The laboratory has not said anything about the price yet, but it is likely to be quite expensive. The lab hopes young, rich business executives will buy it.

The laboratory used a special chemical called an antioxidant* in the chocolate. The antioxidant they used is one that gives flamingos their pink colour. The scientists say that the antioxidant can bring parts of the skin of a 50 to 60-year-old person back to the levels of a 20 to 30-year-old. They said people who ate the chocolate could see changes in their skin within just three weeks. A spokesman for the laboratory said it took a decade of research and trials with more than 3,000 volunteers to produce Esthechoc. The chocolate bar will only be sold in boxes of 21 bars — one a day for three weeks. Other scientists say more research is needed for people to know whether or not Esthechoc actually works.

注) *antioxidant: 酸化防止剤

- a . Esthechoc will probably be expensive.
- b . More research is needed to prove that Esthechoc works.
- c . People who ate the chocolate could find changes in their skin after a couple of months.
- d . Some scientists think they have invented anti-ageing chocolate.

[出典]

- (1) "Coffee, green tea lower risk of death", Jiji Press, The Japan News by The Yomiuri Shimbun, Edition S, May 12, 2015, P2.
- (2) Banville, Sean. "Keeping cold could keep you thinner." Breaking News English. 23 March 2015. Copyright © 2015 Sean Banville. Used with permission.
- (3) Banville, Sean. "600 students expelled for cheating." Breaking News English. 10 January 2015. Copyright © 2015 Sean Banville. Used with permission.
- (4) Banville, Sean. "We need to prepare for the Internet of Things." Breaking News English. 28 April 2015. Copyright © 2015 Sean Banville. Used with permission.
- (5) Banville, Sean. "Scientists invent 'anti-ageing' chocolate." Breaking News English. 24th February 2015. Copyright © 2015 Sean Banville. Used with permission.

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

著作権の関係で問題文は掲載できません。

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[出典]

“The race is still on for a reusable rocket despite the SpaceX setback”, Michael Smart, April 22 2015, The Conversation,

<http://theconversation.com/the-race-is-still-on-for-a-reusable-rocket-despite-the-spacex-setback-40087>

注) * expendable: designed to be used only once

* payload: part of the rockets that carries cargo

* cryogenic: 低温の

- (1) In which paragraph does the author use an analogy, or a comparison of two things, to make the idea clearer to the reader?
 - a. Paragraph [1]
 - b. Paragraph [2]
 - c. Paragraph [4]
 - d. Paragraph [5]

- (2) Which paragraph describes the process of how SpaceX is attempting to recover part of its space launch system?
 - a. Paragraph [3]
 - b. Paragraph [4]
 - c. Paragraph [6]
 - d. Paragraph [7]

- (3) According to the author, why is the cost of launching things into space so high?
 - a. Because extensive research is required for a successful launch.
 - b. Because much of the launch system can only be used one time.
 - c. Because the launch system uses several stages.
 - d. Because the current space launch systems are mostly reusable.

- (4) According to the article, what is one problem with building a rocket that uses inexpensive parts?
 - a. The rocket can be expensive to repair later.
 - b. The rocket may not be very reliable.
 - c. It is difficult to retrieve the rocket later.
 - d. The rocket requires multiple stages.

- (5) What are two reasons that the first stage booster is the most worthwhile part of the launch system to recover?
- a . It is the easiest to retrieve and is the most expensive.
 - b . It is the largest and most reliable.
 - c . It is the largest and travels the slowest.
 - d . It contains both the liquid fuel and oxidizer.

3 Follow the directions and write sentences in English.

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

A : Do you know where I can find the manager?

B : I'm not sure where she is. _____

A : Yes, I checked the front desk, but no one was around.

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

A : I'm looking for a part-time job. Do you know of any job openings at your company?

B : _____

A : I can work on Mondays and Thursdays in the afternoon and on Wednesdays in the mornings.

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

A : I really love my new electric car, but I must plug it in each night to charge it overnight.

B : _____

A : I can usually drive about 100 km on a full charge.

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

A : Which days of the week are impossible for you to meet with us?

B : _____ [月曜日と水曜日はともに]

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

A : When did you two meet each other?

B : _____ [小学校の時]

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

- (1) a chance to do something or an occasion when it is easy for you to do something
- (2) actions or opinions that show that you disagree with someone or something
- (3) showing or expressing strong feelings or opinions
- (4) someone who lives or stays in a place such as a house
- (5) a formal decision or statement agreed on by a group of people
- (6) making you feel ashamed, nervous or uncomfortable
- (7) to not look after someone or something properly
- (8) the act of buying something
- (9) work that a person is paid to do
- (10) something that is not included in a rule

a . pursuit	b . exception	c . ethnic	d . purchase	e . neglect
f . embarrassing	g . opportunity	h . resolution	i . prestigious	j . responsibility
k . resident	l . exchange	m . identify	n . emotional	o . itinerary
p . opposition	q . employment			

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]

Gallo, Carmine. *The Apple experience: the secrets of delivering insanely great customer service*.
The McGraw-Hill Companies, 2012, PP83-84, 1st ed.

英 語 11/11

注) *follow-through: a continuation of the movement after a ball has been thrown

*gooseneck: an ideal follow-through form when shooting a basketball

*wallowing: losing oneself

(1) Thompson 氏の提唱している“criticism sandwich”とはどのような考え方にもとづくものか。本文に即して、句読点も含めて 100 字以内の日本語で説明しなさい。

(2) あなたが、もっともやる気ができるのはどのような時か。50 語程度の英語で書きなさい。