

解答はすべて解答用紙の指定された場所に記入すること。

I 次の英文を読んで、下の問いの答えとして最も適切なものを(a)~(d)から1つずつ選びなさい。

Ever since humans first saw birds in the sky, people have dreamed of soaring above the clouds. Of course, nowadays we can get on an airplane and fly around the world, but in the 15th century, this was just a dream. One man, however, tried very hard to make this dream a reality.

Leonardo da Vinci is someone that most of you will probably have heard of. His painting, the *Mona Lisa*, is in all likelihood the best-known piece of art in the world. This remarkable man was born in 1452 in the Republic of Florence, now part of modern-day Italy. He was, and still is, widely considered to be one of the most diversely talented individuals ever to have lived. One of the many challenges that Leonardo da Vinci set himself was to create a flying machine. Indeed, he is sometimes credited with “inventing” the airplane, helicopter, and parachute, some 500 years before their time.

Leonardo made many hundreds of sketches on the subject of flight, often buying birds at the local market in order to study their wings. He believed that a method for human flight could be found in the natural world, particularly in bats and birds. Bats seem to have been one of his main inspirations, and in many of his sketches, the wings resemble bat wings.

An ornithopter is a flying machine that mimics a bird and is powered by a human, and Leonardo designed one that he hoped would fly. It had a wingspan of roughly 10 meters, and it was made principally from pine and silk. In this device, the pilot would lie face down on a board and use his legs to pedal a crank, which was connected to a rod-and-pulley system. There was also a steering device, and a hand crank to provide extra power. It is not known for sure whether Leonardo da Vinci ever tested his device, but while it may have flown when airborne, it would have been impossible for it to get off the ground using human power alone.

Although the ornithopter was probably always destined to remain on the ground, Leonardo's designs for a glider were more practical. Detailed in his *Codex on the Flight of Birds*, his glider design included the idea that the pilot could control the machine by shifting body weight. This was an idea used over 350 years later by glider pioneers in the late 19th century. Leonardo also understood the way in which gliding birds balanced themselves with both their wings and tail. When the Wright brothers were creating their first aeronautical designs, they would also utilize this knowledge.

Leonardo died in 1519, having never left the ground. However, his aeronautical designs and ideas on flight were both groundbreaking and an inspiration to future designers and inventors.

Philip Zamrej Graham 他著. *Eureka!* (Nan'un-do) より一部変更

Question(1) : According to the passage, which statement about Leonardo's ornithopter is true?

- (a) Some documents say that it flew 10 meters.
- (b) It imitated a flying animal.
- (c) It was mainly made of iron.
- (d) It used a mechanical engine to provide extra power.

Question(2) : According to the passage, which statement about Leonardo's glider design is true?

- (a) It was included in his *Codex on the Flight of Birds*.
- (b) It was a vehicle for sliding on the ground.
- (c) It was influenced by the Wright brothers' idea.
- (d) It disappeared right after his death.

Question(3) : According to the passage, why did Leonardo da Vinci buy birds?

- (a) They were found in the natural world.
- (b) He was one of the most diversely talented people in history.
- (c) He dreamed of having them.
- (d) He wanted to know more about their wings.

Question(4) : According to the passage, which statement is true?

- (a) Leonardo da Vinci's ideas for controlling a glider were mistaken.
- (b) Leonardo da Vinci's sketches of birds sold well at the local market.
- (c) Leonardo da Vinci was the first person that dreamed of flying like a bird.
- (d) Leonardo da Vinci was particularly inspired by bats.

Question(5) : According to the passage, which statement is true?

- (a) An average man could have made Leonardo da Vinci's ornithopter fly.
- (b) Leonardo da Vinci often bought bats at markets.
- (c) Leonardo da Vinci successfully tested his ornithopter.
- (d) The *Mona Lisa* was painted by a person born in 1452.

II 空所を埋めるのに最も適切な語句を(a)~(d)から1つずつ選びなさい。

(6) He has become ( ) to living in a foreign country.

- (a) use
- (b) user
- (c) used
- (d) using

(7) The leaves on that tree ( ) red in autumn.

- (a) turn
- (b) turn by
- (c) turn of
- (d) turn on

(8) Those who ( ) environmental issues must have heard about global warming.

- (a) are passion beyond
- (b) are passionate about
- (c) have passion out
- (d) have passionate on

(9) It is time you ( ) to bed.

- (a) have
- (b) had
- (c) had gone
- (d) went

(10) I bought the same dress as Susan for 10 dollars ( ).

- (a) few
- (b) least
- (c) less
- (d) little

Ⅲ (a)~(d)の語句を空所に入れて英文を作るとき、\*印の空所に入る最も適切な語句を(a)~(d)から1つずつ選びなさい。文頭に来る語も小文字で表示してある。

(11) ( ) ( \* ) ( ) ( ) to Osaka.

- (a) bus (b) takes (c) this (d) you

(12) We ( ) ( ) which ( \* ) to ( ).

- (a) go (b) loss (c) way (d) were at a

(13) ( \* ) ( ) ( ) ( ) this book is?

- (a) do (b) how much (c) think (d) you

(14) She was ( ) ( \* ) ( ) by her sister when we ( ) home.

- (a) being (b) English (c) got (d) taught

(15) This box is ( ) ( \* ) ( ) of that ( ).

- (a) a quarter (b) one (c) size (d) the

Ⅳ 次の会話(A)、(B)がそれぞれ成り立つように、最も適切なものを(a)~(g)から1つずつ選びなさい。

(A)

Jack : You look really tired today. Are you okay?

Dick : (16)

Jack : I'm sorry to hear that. When did the problem start?

Dick : (17)

Jack : Are you under a lot of stress or worried about something?

Dick : (18) So, it should be easy for me to sleep.

Jack : Do you do anything to relax before bed? I always read a book.

Dick : (19)

Jack : Well, that's your problem! Why not listen to some peaceful music instead?

Dick : (20)

- (a) This month I've been watching action movies late at night.  
(b) No, not at all. Everything in my life is going smoothly.  
(c) Maybe you should try going to bed even earlier.  
(d) Hey, I never thought of that. Maybe I'll take your advice.  
(e) I can't remember exactly, but maybe about two weeks ago.  
(f) It was on the other side of my bedroom, so I moved it.  
(g) Actually, I've been having trouble sleeping lately.

(B)

Richard : What kind of books and movies do you like, George?

George : I really like science fiction and horror. I enjoy weird and scary stories.

Richard : So do I! What's the scariest movie you've ever seen?

George : 21 Oh, a really scary one that I saw recently is *Talk to Me*. Have you seen it?

Richard : I don't think so. 22

George : It's about some teenagers in Australia who find a hand with no body.

Richard : What do they do with it?

George : They use it to talk with ghosts. 23 Then a ghost appears to the person who's holding it.

Richard : 24 I can't wait to see it!

George : Actually, I'd like to see it again. 25

Richard : Okay, that sounds great! Thank you for inviting me!

- (a) Why don't we watch it together at my house tomorrow night?
- (b) But it's possible. What is it called?
- (c) They hold the hand and say, "Talk to me!"
- (d) That movie will be released in 2026.
- (e) Wow, it's hard to choose just one. Let me think.
- (f) That sounds really scary, and I love ghost stories.
- (g) Tell me more about it. What happens in the movie?

V 犬派の Steve と猫派の Stan の会話を含む以下の英文を読み、2人が触れている良い点と悪い点を参考にして、ペットを飼うとすれば犬と猫のどちらが良いか、あなたの意見を述べなさい。答えはマークシートの裏面に英語120語程度で書きなさい。

Many people have pets, but not everyone has the same preferences. Some people prefer dogs, but some prefer cats, and there are good and bad points about both.

Steve : If you had a pet, would you prefer a dog or a cat?

Stan : Definitely a cat! They're much cleaner. Dogs get dirty and you have to give them baths, but cats keep themselves clean with their tongues.

Steve : That's true, but I prefer dogs. You can train them to obey your commands and even do tricks. Cats are so independent and just do whatever they want. They won't come when you call.

Stan : But cats are so cute! And they're also quiet. They don't bark and make noise like dogs.

Steve : Well, there are many types and sizes of dogs, and some are cuter than cats. Also, not all dogs bark and make noise. And barking can actually be a good thing. You can train a dog to be a good watchdog to protect your home. A cat would probably just run away or hide.

Stan : I don't need a watchdog. Cats are easier to take care of because you don't have to take them for walks.

Steve : Yes, but they have sharp claws and can damage your furniture. I'd

rather take a dog for a walk every day than worry about having to buy a new sofa!