

平成 20 年度 熊本学園大学 一般入試 A 日程 (平成 20 年 2 月 10 日)  
商学部第一部 (商学科) 経済学部 (国際経済学科)  
社会福祉学部第一部 (子ども家庭福祉学科)  
英語 I・II・リーディング・ライティング (70 分)

【1】次の英文を読み，設問に答えなさい。

While we have an image of Thomas Edison as an American inventor, working away in his laboratory, one of his greatest inventions has a special link to Japan.

Many inventors wanted to make a source of white light that would replace the gas flames that provided light in cities. One idea was that if an \*electric current were passed through a wire in a vacuum, with no air, the wire would not burn but continue to give off light. Several inventors succeeded in making a light that lasted up to a few hours, but this was not long enough. Thomas Edison, who said “genius is 99% perspiration and 1% inspiration”, approached the task in a way that underlines his saying. He first learned that material that was \*carbonized would last longer and created the first light bulb in 1879 using a carbonized cotton thread or \*filament that lasted about 40 hours. However, Edison thought that the light bulb needed to last more than 600 hours. So Edison carefully tested over 6,000 different materials to use in the light bulb.

Edison thought that bamboo might be the answer and some stories say that he was given an *uchiwa* or fan made of bamboo harvested in Yawata, near Kyoto and was impressed with how strong, yet flexible the bamboo was. He soon arranged to receive samples of Yawata bamboo and in testing them, found them to last longer than any other types of bamboo, about 2,500 hours! This was the last hurdle for the incandescent light bulb, and Thomas Edison’s company began manufacturing light bulbs, using the Yawata bamboo for 10 years, until the bamboo was replaced with a \*tungsten thread created by a new manufacturing process.

Now, at the shrine of Iwashimizu Hachimangu in Yawata, there is a memorial to Thomas Edison and the bamboo of Yawata, where we can see how small the world can really be.

KGU staff

(注) \*electric current 電流 \*carbonized 炭化した \*filament フィラメント  
\*incandescent 白熱光を発する \*tungsten タングステン

1. What is the best title for this essay?
  - a. Edison's light bulb
  - b. Edison, light bulb and Japan
  - c. Edison, man of genius
  - d. How to invent a light bulb
2. Why did filaments not burn in a light bulb?
  - a. because Edison was a genius
  - b. because there was no air
  - c. because they were from Japan
  - d. because they were too hot
3. How long did the bamboo filament from Yawata last?
  - a. 40 hours
  - b. 600 hours
  - c. 2,500 hours
  - d. 10 years
4. Why did Edison think that Yawata bamboo could be used as a filament?
  - a. because it was from Japan
  - b. because it was inexpensive
  - c. because it was like tungsten
  - d. because it was strong and flexible
5. 下線部を日本語に訳しなさい。

【2】空所に入れるのに最も適切なものを a ~ d から選び，記号で答えなさい。

1. Yufuin is a very famous hot spring (            ).  
a. institution      b. port              c. resort            d. system
2. Don't drive so fast. There's a speed (            ) here, you know!  
a. end                b. limit              c. light              d. max
3. As their ship was about to leave, they went (            ).  
a. aboard              b. abroad            c. board              d. got on
4. Every Sunday, the church bells (            ) up at 7:00 in the morning.  
a. arise us            b. get us              c. ring us            d. rise us
5. Alice speaks English with a German (            ), because she lived in Germany until she was 20 years old.  
a. accent              b. conversation      c. language            d. speech
6. I reserved a room of the very popular inn three months in (            ).  
a. advace              b. fact                c. short                d. time
7. If you want to (            ) a picutre for the album, make sure everyone is in it.  
a. develop            b. press                c. take                d. try
8. Tom is funny boy and his stories always (            ) me.  
a. amuse              b. bore                c. confuse              d. upset
9. Unless you (            ) attention to what your teacher says, you won't learn much.  
a. give                b. hold                c. pay                d. show
10. The official head of a city is the (            ).  
a. chief                b. mayor              c. minister            d. president

**【3】** 日本文の意味に合うように，空所に適切な関係詞を入れなさい。

1. 彼女はスペインに行き，そこで一ヶ月過ごした。  
She went to Spain, (            ) she stayed for a month.
2. 彼は何も言わなかった。それが参加者をいっそう不快にした。  
He said nothing, (            ) made the participants more uncomfortable.
3. 彼のお父さんと話したが，それまで会ったことはなかった。  
I talked with his father, (            ) I'd never met before.
4. 大切なことは正直であることです。  
(            ) is important is to be honest.
5. あの方が私たちが購入した土地の地主さんです。  
That is the man (            ) land we bought.
6. 彼女が僕にしてほしいと望んでいることは何でもするつもりです。  
I'll do (            ) she wants me to do.
7. 困ったときにはいつでも，連絡してきてください。  
Get in touch with me (            ) you are in trouble.
8. なぜ昨日メールをくれなかったの。  
Will you tell me (            ) you didn't e-mail me yesterday?
9. どちらの道を行っても，目的地に着きますよ。  
(            ) way you take, you'll get to the destination.
10. 公園で犬を散歩させていた女性が事故を目撃していた。  
The woman (            ) was walking her dog in the park saw the accident.

【4】次の英文の空所( 1 )~( 10 )に入れるのに最も適切なものを下記の a ~ n の中から選び, 記号で答えなさい。

White light from the sun really is a ( 1 ) of colors. When a beam of light goes into water or glass, it slows down. So, if a beam enters ( 2 ) an angle, the part of the beam that goes in first ( 3 ) down more than the rest. Scientists ( 4 ) this \*refraction. But blue light slows down more than green, and green more than red, ( 5 ) white light is split up into all the colors.

When a beam of sunlight goes into a raindrop, it is split up. It is then ( 6 ) from the back of the drop and is still further split up ( 7 ) it comes out. Only one color from each raindrop ( 8 ) reach any particular person's eye, but because there are thousands of raindrops we can see the whole bow. Each person sees light from many ( 9 ) drops, \*glinting different colors in the sunlight. A rainbow always seems to move away if you walk towards it, because the ( 10 ) come from a different set of drops.

*Oxford Childrens' Encyclopedia*

(注) \*refraction 屈折 \*glint 反射して光る

- |           |            |              |           |              |
|-----------|------------|--------------|-----------|--------------|
| a. as     | b. at      | c. call      | d. colors | e. different |
| f. heavy  | g. mixture | h. reflected | i. slows  | j. so        |
| k. sounds | l. tell    | m. turns     | n. will   |              |

【5】空所に入れるのに最も適切なものを a～d から選び，記号で答えなさい。

1. They said they have (            ) tickets left.  
a. a few            b. a handful            c. a little            d. a small
2. Working two part-time jobs (            ) her very tired.  
a. make            b. makes            c. making            d. to make
3. Could you (            ) me what time the movie starts?  
a. say            b. speak            c. tell            d. to tell
4. I have made (            ) of friends here at university.  
a. a lot            b. much            c. so many            d. so much
5. I hope that the prefecture will lead the fight (            ) pollution.  
a. against            b. at            c. for            d. with
6. When I (            ) by the sign, I saw a crowd watching the parade.  
a. am passing            b. passed            c. past            d. was past
7. I (            ) give him a call if it weren't so late.  
a. may            b. should            c. will            d. would
8. (            ) the problems with the schedule, the test was postponed.  
a. Because of            b. Even though            c. However            d. In spite of
9. There are many things involved (            ) improving your diet.  
a. at            b. by            c. in            d. so
10. Here is (            ) to my party.  
a. an introduction            b. an invitation            c. an invasion            d. to invite

【6】次の日本語を英語で表現しなさい。

1. 結果は今月末までにお知らせします。
2. 熊本でどこか行ってみたいところがあれば，遠慮なく教えてください。  
どこでもお連れしますよ。

## 解答例

【1】

1	2	3	4
b	b	c	d

5. トーマス・エジソンと八幡の竹の記念碑が存在し，ここにおいて，世界が実際にいかに狭いかがわかるのである。

【2】

1	2	3	4	5	6	7	8	9	10
c	b	a	b	a	a	a	a	c	b

【3】

1	2	3	4	5
where	which	whom	What	whose
6	7	8	9	10
whatever	whenever	why	Whichever	Who[that]

【4】

1	2	3	4	5	6	7	8	9	10
g	b	i	c	j	h	a	n	e	d

【5】

1	2	3	4	5	6	7	8	9	10
a	b	c	a	a	b	d	a	c	b

- 【6】 1. I'll let you know the result by the end of this month.  
 2. If you have some place you'd like to visit in Kumamoto, don't hesitate to tell me. I'll take you wherever you want.