

2020 年度(令和 2 年度)

前 期 日 程

英 語 (80 分)

注 意 事 項

1. 試験開始の合図があるまで、この問題冊子を開いてはいけません。
2. 問題冊子は、1 ページから 20 ページまであります。解答用紙は、2 枚からなっており、「1」はマーク式、「2」は記述式です。ページの脱落等に気付いたときは、手をあげて監督者に知らせなさい。
3. 監督者の指示に従って、すべての解答用紙の受験番号欄に受験番号を記入し、マーク欄にマークしなさい。
4. 解答はすべて、解答用紙の指定された欄にマーク又は記入しなさい。
5. 受験番号のマーク時及び解答用紙「1」の解答には、必ず黒鉛筆(H, F, HBに限る)及びプラスチック製の消しゴムを使用し、「マーク例」に従って、正しくマークしなさい。黒鉛筆以外のもの(シャープペンシル等)を使用してマークした場合、マークが薄い場合、一部分しかマークしていない場合、訂正箇所を消しゴムできれいに消していない(消し跡が残っている)場合は、マークが正しく読み取れず、採点できないことがあります。
6. 解答用紙の網掛け部分及び※を付した欄には、何も記入してはいけません。
7. 問題冊子の白紙と余白は下書きに適宜利用してもよいが、どのページも切り離してはいけません。
8. 試験終了後、この問題冊子は持ち帰りなさい。

I

1 Read the following text and answer the question below.

この部分に記載されている文章については、
著作権の問題から公開することはできません。

【出典(一部改変) : <https://www.psychologytoday.com/>】

Which of the following is the main idea of the text?

- A. Resilience is partly genetic and partly a learned trait.
- B. The work of Booker T. Washington needs to be revisited in the light of current research into resilience.
- C. Parents and teachers have an important role to play in developing children's resilience.
- D. Teachers can help children to develop resilience through critical thinking activities.

2 Read the following text and answer the question below.

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【出典(一部改変) : <http://www.bbc.com/>】

Which of the following statements is true?

- A. The researchers at Harvard University did not use the ideal research method to compare the two groups.
- B. According to the researchers at Harvard University, possessing strong bones is related to drinking more than one glass of milk a week.
- C. Based on the research data, both American men and women have been recommended to drink a glass of milk a day.
- D. It can be said that the study mentioned in the text found one cause of broken bones.

3 Read the following text and answer the question below.

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【出典(一部改変) : <https://www.timeforkids.com/>】

Which of the following best fills [X]?

- A. Some are against listing the giraffe as endangered.
- B. Listing the giraffe as endangered enjoys unanimous support.
- C. Some people believe the giraffe should be confined in zoos.
- D. Listing the giraffe as endangered will please U.S. hunters.

4 Choose the best answer from A—D to rearrange the following sentences in the best order.

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【出典(一部改変) : <http://blogs.discovermagazine.com/>】

- A. ③—①—⑤—②—④
- B. ③—④—⑤—①—②
- C. ⑤—①—③—②—④
- D. ⑤—③—①—④—②

II

Read the following text and choose the most appropriate word or phrase from A—D to fill in (1)—(10).

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【出典(一部改変) : <https://www.studentnewsdaily.com/>】

- (1) A. hardly B. merely C. nearly D. rarely
- (2) A. adoption B. ally C. analogy D. announcement
- (3) A. ignored B. certified C. forgiven D. remembered
- (4) A. at most B. not only
C. anything but D. all but
- (5) A. are often used B. is always using
C. should have been used D. sometimes used
- (6) A. inclined B. visible C. prime D. indispensable
- (7) A. gaze B. stare C. look D. watch
- (8) A. any B. a few C. a lot of D. much
- (9) A. success B. benefit C. bother D. identification
- (10) A. labor B. flood C. rumor D. price

III

Read the following text and answer the questions below.

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【出典(一部改変) : <https://techspective.net/>】

1 Choose the word or phrase from A — D which is closest in meaning to ①—⑤.

- ① A. productions B. predictions C. regulations D. dictionaries
- ② A. hotel B. secretarial C. helper D. promoter
- ③ A. demonstrated B. canceled C. yielded D. directed
- ④ A. leads to B. is true of C. reflects on D. breathes into
- ⑤ A. speeding B. winding C. moving D. beginning

2 Choose the best answer for each question.

- (1) What is the best title for this text?
- A. The Rich and Bright Future That AI will Make Possible
- B. The Rights of Artificially-Intelligent Beings
- C. Will You Lose Your Job to Artificial Intelligence?
- D. AI Technologies in Medicine and Education

- (2) Which workers in the industries mentioned in the text are predicted to lose the greatest percentage of jobs?
- A. sales staff
 - B. factory workers
 - C. truck drivers and warehouse workers
 - D. office assistants and secretaries
- (3) Which best summarizes Elvis McDermott's opinion about AI?
- A. The cost effectiveness of AI requires real benefits.
 - B. The time away from work that humans require makes them less efficient than AI.
 - C. Cloud computing makes it possible for AI to operate in the sky.
 - D. Productivity from AI leads to longer holidays for real employees.
- (4) What was the effect of AI on banks?
- A. By lowering the cost of service, ATMs increased how many locations customers could access.
 - B. As expected, 40 percent of bank branches closed.
 - C. ATMs raised the cost of opening new bank branches, increasing their overall number.
 - D. ATMs did exactly the opposite of what was predicted and replaced banks.
- (5) Which is not true according to the text?
- A. Large law firms are currently using computer programs to do routine research.
 - B. The teaching profession is among those under the most serious threat from AI.
 - C. The author believes that there are drawbacks but also benefits to AI.
 - D. New laws are needed to protect workers if their jobs are eliminated.

IV

Answer the questions below.

1 Last Saturday, members of a soccer club arrived at a Chinese restaurant in town. The place was very popular, and five-sixths of the seats were already taken, so there were only enough empty seats for half of the members. Half of the members, the seniors who had been in the club for more than ten years, decided to go to a sushi bar nearby. It turned out that the seniors were lucky because the sushi bar had a special offer for a group of four, which offered a free meal for one person of the group. They had just the right number of people, so this offer meant that two seniors did not have to pay for the meal.

What is the total number of seats in the Chinese restaurant?

2 Jane was wondering about her cable television bill. Her monthly bill is four thousand yen and the only thing she ever watches is the sports. She realizes that if she bought a digital antenna, she could watch her favorite football team for free. The antenna would cost 20 thousand yen. She lives in a bit of a valley, so she would need to mount the antenna on a pole. Poles cost two thousand yen per meter and the pole would need to be three meters high. She would also need coaxial cable to connect the antenna to her television. Coaxial cable is 5 yen per 10 centimeters. She would need 40 meters of cable. She had the rest of the equipment — the bolts, clamps and tools — and she would do the work herself.

How many months of cable television bills would equal the cost of the antenna system?

3 Sam was deciding what to have for breakfast and in particular he was wondering which spread to use on his toast. All of the spreads seemed appealing — peanut butter, chocolate spread, or that fluffy marshmallow stuff. He wondered about the calories. This brand of peanut butter had 200 calories per serving. The chocolate spread had 50% more calories per serving than the peanut butter. The marshmallow spread had 25% fewer calories than the peanut butter. He reached for the marshmallow, but looking more closely, he realized that each serving size was different. A serving of peanut butter was 100 grams and he would need two servings to cover his toast. The serving size for chocolate spread was 200 grams, but one serving would be enough. The serving size for the marshmallow was only 25 grams and he would need three servings to be satisfied.

Using the serving information above, how many more calories would Sam consume by choosing peanut butter rather than the spread with the fewest calories?

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【出典(一部改変) : <https://www.mext.go.jp/>】

Compared to Asian countries, the ratio of graduate students to undergraduate students is high in European countries. Among the three European countries, France has the highest ratio, much higher than NITech. Germany follows France, and this is then followed by the UK. The ratio in the UK is less than half that of France. The ratio of graduate students in Asian countries are small. Even that of South Korea, which has the highest value in the three Asian countries, is less than half that of the UK. The USA ranks between European countries and Asian countries. In Japan, although the number of university students is the third largest, the ratio of graduate students is the smallest among these seven countries.

Match A — G in the table with the following countries.

Japan: _____
South Korea: _____
UK: _____
Germany: _____
France: _____
USA: _____
Mainland China: _____

V

以下の問いに答えなさい。

近年、学校では、インターネットや電子機器を用いて行う授業が増えています。高校生が、学習にインターネットやタブレットを活用する場合のメリットとデメリットの両方について、具体例を交えて、あなたの考えを 60 語から 80 語の英語で述べなさい。