

2022 年度(令和 4 年度)

前 期 日 程

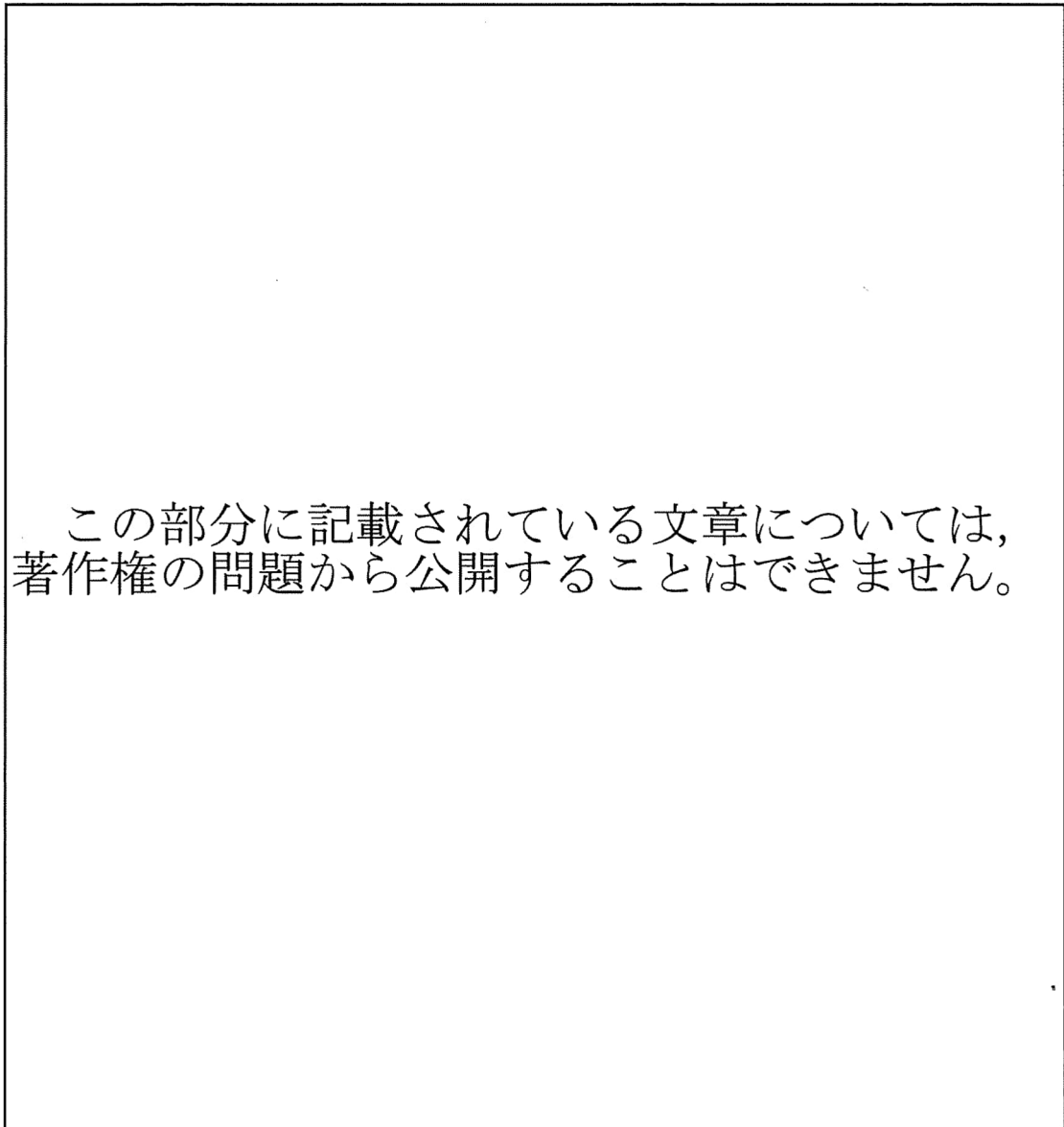
英 語 (80 分)

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 18 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.



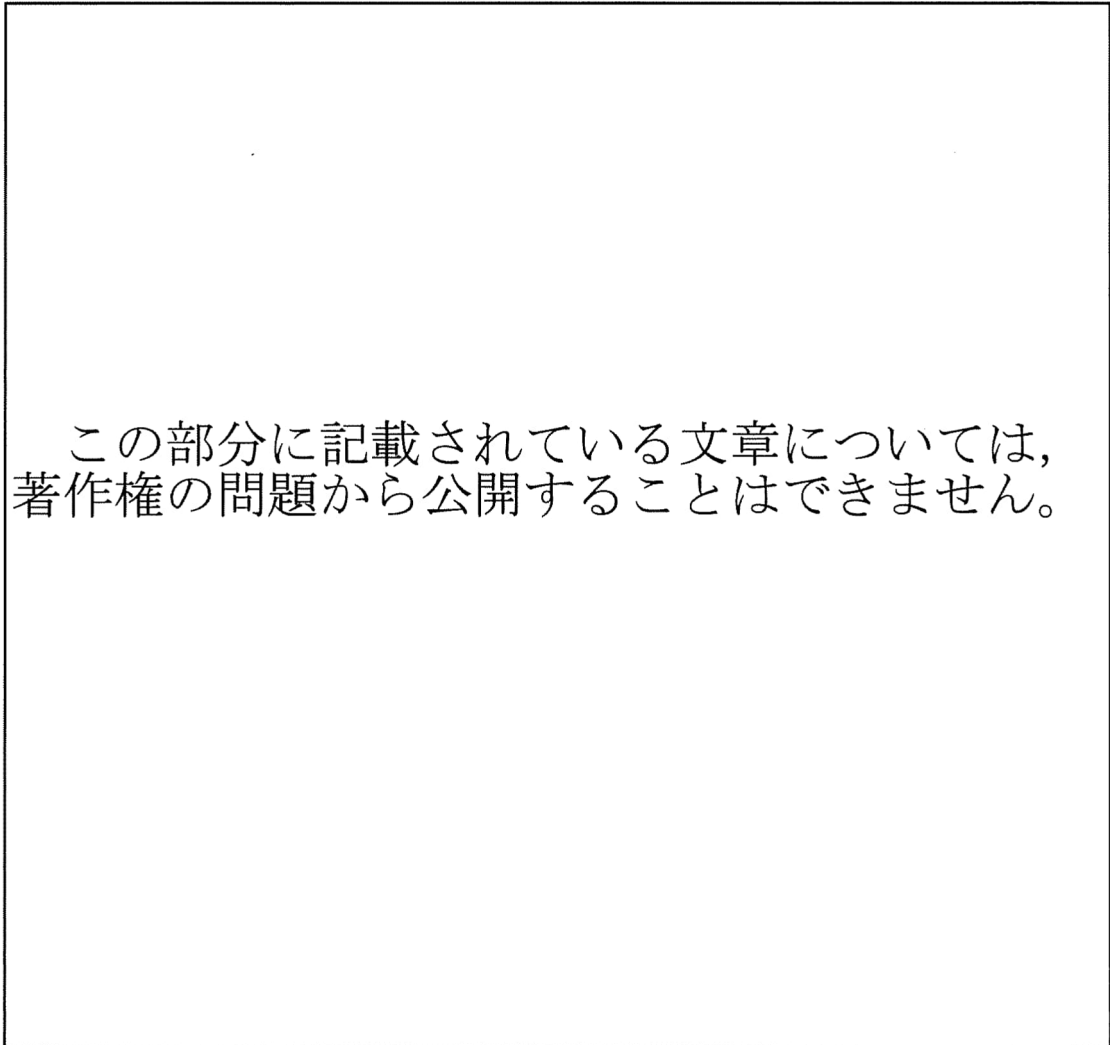
この部分に記載されている文章については、  
著作権の問題から公開することはできません。

【出典(一部改変) : <https://www.independent.co.uk/>】

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

- A. By using climate models, the research demonstrated that the climate crisis is altering the flow of rivers across the world.
- B. As high river flows can contribute to flooding, the UK government must work hard on water management.
- C. The researcher developed climate models that are suitable for changing river flow.
- D. The result of the study clearly showed that climate change was the result of human behavior.

2 Read the following text and answer the question below.



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

Which of the following statements is true?

- A. People can enjoy living on a floor higher than 800 meters in Dubai.
- B. Gazprom provides homes in the original Lakhta Center for its employees.
- C. The original Lakhta Center is built in the center of the downtown area.
- D. Tony Kettle designed the building that is currently the tallest in Europe.

3 Read the following text and answer the question below.

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

\*lava 溶岩

Which of the following best fills [ X ]?

- A. We need more support for scientists who study volcanic activity because these volcanoes in Hawai'i are so interesting
- B. Mauna Loa is the second youngest of the five volcanoes that form the Island of Hawai'i
- C. The lava from Kīlauea destroyed Hawai'i's largest natural freshwater lake
- D. Regarding the ongoing activity at the top of Kīlauea, scientists are mainly worried because so much volcanic gas is coming out recently

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) : <https://www.healthline.com/>】

- A. ②—①—⑥—④—③—⑤
- B. ②—⑤—③—①—④—⑥
- C. ①—⑤—③—⑥—④—②
- D. ⑤—③—①—②—⑥—④

## 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.sciencenews.org/>】

\*yarn 編み糸

- (1) A. variation      B. vary      C. varying      D. variety
- (2) A. for      B. in      C. on      D. to
- (3) A. develop      B. developing      C. developed      D. to develop
- (4) A. benefit      B. come      C. escape      D. suffer
- (5) A. remind      B. define      C. replace      D. decline
- (6) A. assisted      B. helped      C. made      D. promoted
- (7) A. far      B. long      C. large      D. well
- (8) A. demand      B. impact      C. risk      D. mistake
- (9) A. despite      B. in spite      C. instead      D. nevertheless
- (10) A. as if      B. before      C. like      D. than

### III

Read the following text and answer the questions below.

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【出典(一部改変) : <http://www.nytimes.com/>】

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

- ① A. criticized      B. failed      C. generated      D. exposed
- ② A. fall      B. pause      C. fiber      D. move
- ③ A. unconsciously      B. artificially  
C. angrily      D. rhythmically
- ④ A. solid      B. fluid      C. irregular      D. coordinated
- ⑤ A. tuned in      B. turned away  
C. turned off      D. switched back

2 Choose the best answer for each question.

- (1) Which statement is true according to the text?
- A. Hisashi Murakami carried out the experiments at Kyoto Institute of Technology.
- B. Most injuries caused by distracted walking lead to hospitalization.
- C. A majority of the group must be distracted walkers in order to affect walking patterns.
- D. Distracted walkers can cause others to imitate their movements.
- (2) In paragraph 5, when the author says that distracted walking “really messes with the vibe,” what does this mean?
- A. Distracted walking increases harmony.
- B. Distracted walking causes confusion and unease among others.
- C. Distracted walking leads to people staring at their phones.
- D. People’s staring at their phones is the cause of distracted walking.

- (3) In the research experiment, what task were the distracted walkers assigned?
- A. taking pictures of other walkers
  - B. using the phone to converse with the researchers
  - C. using the phone's calculator
  - D. playing online games
- (4) From what position can distracted walkers most affect the movement of a group?
- A. All positions are equal.
  - B. the back
  - C. the middle
  - D. the front
- (5) By staring at their phone screens, distracted walkers . . .
- A. avoid obstacles easily.
  - B. deprive others of information about their intended direction.
  - C. help others maintain eye contact.
  - D. increase the possibility of graceful movements.

## IV

**Answer the questions below.**

- 1 One morning Kate suddenly received a box of apples and oranges from her aunt, Pat, who runs a fruit farm. Unfortunately, Kate had to leave Nagoya in the evening and could not come back for a month. She decided to give the fruit to her students. She went out to buy some paper bags and began to put the same number of apples in each bag. When she had put three apples into each bag, seven were left. As the number of oranges was half of the number of apples, she added two oranges to each bag. Before finishing, she found there were two bags that contained no oranges, and she had only two oranges left. She added one orange and three apples to each of the last two bags. She ate the last apple by herself and cleared the box. In the afternoon, she handed one fruit bag to each student in her class.

How many apples did Pat send to Kate?

2 NITech Basketball Team has six players: Anne, Ed, Hiro, Judy, Rob, and Sara. They are all good players and are all ranked on the Best Players List of 2021 announced by Gokiso Basketball League last week. Sara is the captain of the team and played all the games. She is a good player and scored more than 1,000 points but was not the highest-scoring player. Ed scored more than Sara and Judy, though he got injured while he was cooking dinner for his family. Anne and Judy practiced hard and showed excellent play in the games. Unfortunately, Judy could not enjoy the glory of being in the top two players because she had to study to pass the final examination. She could not join the team during the winter season. Her total points slightly exceeded 1,000. Rob scored less than Hiro but was not the lowest scoring player of the six, and he always supported other players very well.

Total points scored by each player on the NITech Basketball Team

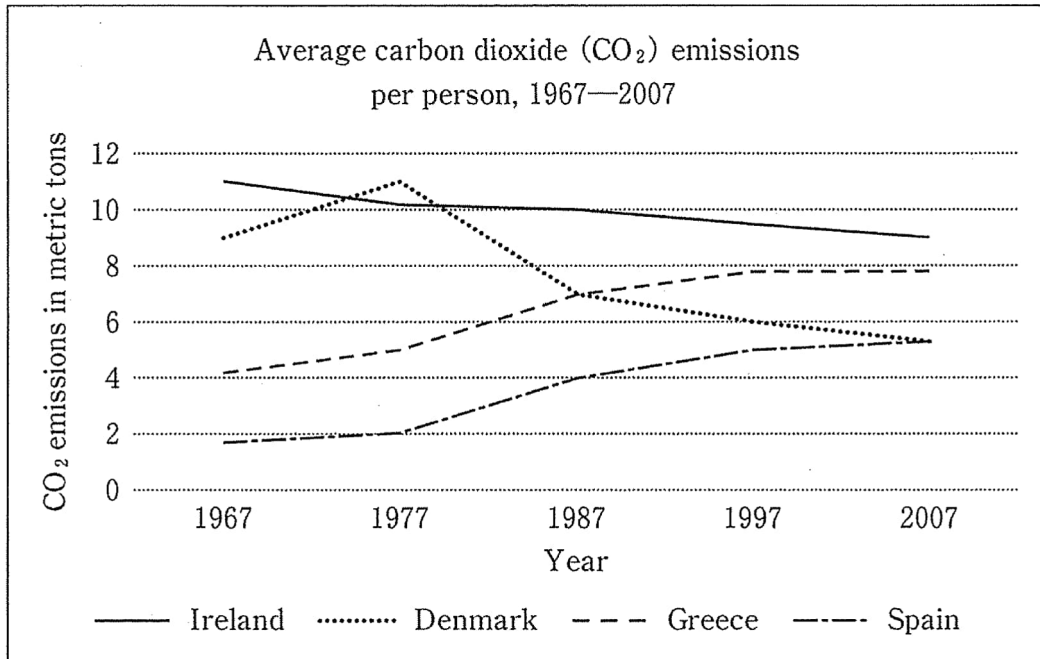
Player	Points
A	1,302
B	1,123
C	1,008
D	920
E	876
F	790

Write the letter A—F matching each player.

Anne \_\_\_\_\_ Ed \_\_\_\_\_ Hiro \_\_\_\_\_  
 Judy \_\_\_\_\_ Rob \_\_\_\_\_ Sara \_\_\_\_\_



- 3 The graph below shows CO<sub>2</sub> emissions from four countries. Choose the best statement from A—F to describe the graph.



- A. Emissions in Spain surpassed those in Denmark in 1987.
- B. In Ireland, emissions have been declining similarly to those in Spain.
- C. While emissions in Denmark were lower in 2007 than in 1967, those in Ireland were higher.
- D. Emissions in Denmark peaked in the 1970s and have been declining since.
- E. Both Greece and Spain have seen rapid declines in emissions since 1967.
- F. After rising slightly from 1967 to 1977, emissions in Denmark rose rapidly until 2007.

4 Esperanza needs new clothes for her new job. She has a budget of 40,000 yen and needs five items of clothing: a pair of pants, a shirt, a necktie, a belt, and a pair of shoes. The linen pants cost 12,000 yen, the silk shirt is 5,000 yen, the tie is 8,000 yen, and the belt is 4,000 yen. There are four pairs of shoes that she likes. The black leather loafers cost 11,000 yen, the blue suede pumps are 12,000 yen, the red high heels cost only 5,000 yen, and the purple over-the-knee boots are on sale for 8,000 yen. Tax is included in all prices.

What is the color of the most expensive shoes that she can buy without exceeding her budget? Write the color of the shoes in English on your answer sheet.

## V

以下の問いに答えなさい。

現在、自動車の自動運転の実用化を目指し、様々な技術の開発が進んでいます。日本では、2020年4月の改正道路交通法などにより、レベル3(条件付運転自動化)の車両が、公道で走行可能になりました。技術や法改正が進めば、近い将来、レベル5(完全運転自動化)の車両の走行が実現されるでしょう。完全運転自動化が実現すると、人による運転操作は不要になります。この完全運転自動化の実現により、私たちの生活にどのような変化が起きると思いますか。具体例を交えて、あなたの意見を60語から80語の英語で書きなさい。

参考：自動運転システムの定義(「官民 ITS 構想・ロードマップ 2017」を基に作成)

レベル	概要
0 (運転自動化なし)	運転者が全ての運転操作を実施
1 (運転支援)	システムが前後・左右のいずれかの車両制御に係る運転操作の一部を実施
2 (部分運転自動化)	システムが前後・左右の両方の車両制御に係る運転操作の一部を実施
3 (条件付運転自動化)	システムが全ての運転操作を実施(限定条件下) システムからの要請等に対する応答が必要
4 (高度運転自動化)	システムが全ての運転操作を実施(限定条件下) システムからの要請等に対する応答が不要
5 (完全運転自動化)	システムが全ての運転操作を実施(限定条件なし) システムからの要請等に対する応答が不要