

令和7（2025）年度

前期 一般選抜

英 語

（2月4日 実施）

【 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. 落丁、乱丁または印刷不鮮明の箇所があったら、手を挙げて監督者に知らせてください。
3. 解答用紙は1枚です。解答用紙の指定欄に受験番号を記入してください。
4. 解答は、解答用紙の指定された解答欄に記入してください。また、解答用紙には解答以外何も書いてはいけません。
5. 試験終了後、解答用紙のみ回収します。問題冊子は持ち帰ってください。

[1] 次の単語のペアで下線部の発音が同じなら○、異なっていれば×を解答欄に記入しなさい。

1. through – thirsty 2. ocean – honor 3. language – passion 4. empty – evidence 5. usage – umbrella

[2] 文中の () 内から最適な語句を選び、解答欄に記入しなさい。

1. Automobiles equipped with self- (denying, director, dividing, driving) functions are gaining popularity.
2. Solar flares are known to have a negative (compact, impact, involve, interest) on electronic devices.
3. A lot of technical skills are (need, needs, needed, needing) in order to safely fly a drone inside a building.
4. A good (knowledge, money, flavor, power) of grammar will greatly help students of foreign languages.
5. AI software like ChatGPT can answer questions (after, since, by, before) analyzing vast amounts of data.

[3] 次の会話を読んで、各々の問いに答えなさい。

Two students are talking in the university cafeteria.

Alex: You know, Jamie, as humans, we communicate using language, gestures, and digital messages to share ideas and emotions.

Jamie: True. Our way of using language to express thoughts is unique. But we're not the only creatures that communicate. Insects have some incredible communication skills, too.

Alex: Yeah, you're right. Ants, for example, release chemicals called pheromones to mark a path to food. They can even convey the quality and quantity of the food. It's fascinating how such small creatures can organize themselves so efficiently.

Jamie: In addition to pheromones, butterflies' wings are brightly colored to attract mates, blend in with their surroundings, and protect them from predators. Fireflies communicate primarily through light patterns.

Alex: Crickets make sounds by rubbing their wings together. The sounds they make enable them to find females and mark their territory.

Jamie: And bees perform special movements called a "waggle dance." By moving in specific patterns, they can tell other bees not only the direction of a food source but also how far away it is.

Alex: It's amazing how these tiny creatures communicate. Our methods of communication might seem more complicated, but insects have their own survival methods, and their communication systems are often efficient for their purposes.

Jamie: (). Although they seem simple to humans, insects have remarkable ways of communicating.

Notes: pheromones ・ ・ フェロモン、異性を引き付ける魅力 predator ・ ・ 捕食者、外敵 firefly ・ ・ 蛍
waggle ・ ・ (尾、尻などを)振る

問1 何についての会話ですか? A) ~ D) の選択肢の中から選び、記号を解答欄に記入しなさい。

- A) Communication methods B) Complex emotions C) Light patterns D) Human relationships

問2 適切な答えを A) ~ D) の選択肢の中から選び、記号を解答欄に記入しなさい。

1. According to Alex and Jamie,

- A) Only humans have complex communication. B) Most insects need to learn to speak at a young age.
C) Ants use words and signs to send messages. D) Even small animals can share information effectively.

2. Select the answer that best fits into the underlined space ().

- A) I'm so sorry B) I don't care C) I agree with you D) I don't think so

3. Which statement is TRUE?

- A) Human beings rely only on spoken language to communicate ideas and emotions with each other.
B) Animals and insects never share their feelings or convey messages using their own expressions.
C) Butterflies use their colorful wings to attract people who want to capture their images in photos.
D) Bees move in special ways to share information with others about the precise location of food.

問3 A、B の質問に対する自分自身についての答えを、解答欄に英語で記入しなさい。

A. When was a time that you had trouble communicating with another person? What was the topic?

B. If you could ask any animal a question, which animal would you choose? What would you ask?

[4] () 内の語を並べ替えて英文を完成し、解答欄に記入しなさい。

1. Earthquakes often (people / regions / where / in / occur) are the least prepared for them.
2. Access to (has / information / and / faster / become) more widespread in the digital age.
3. The industrial robot's (sensors / before / the / analyzed / environment) moving the container.
4. The owner was pleased (learned / construction / when / that / he) was progressing as planned.
5. While at university, students (to / be / read / should / encouraged) as many books as possible.

[5] 次の英文を読んで、各々の問いに答えなさい。

Magnetism is an invisible but powerful force of nature. A magnet has two poles, north and south, and depending on their orientation, two magnets can either attract or repel each other. Every magnet contains tiny magnetic particles, and when these particles are organized in the same direction, they create two poles. If you cut a magnet in half, the particles in each half still form a north and a south end, so both pieces have two poles. This is why it is impossible to have a magnet with just one pole.



<https://kansai-automation.co.jp/blog/wp-1>

Magnetism and electricity are closely related. Magnets can generate electricity, as seen in wind turbines. In the same way, when electricity flows through metal wires, it generates a magnetic field around them, creating an electromagnet. Medical equipment like MRI machines use electromagnets to detect the causes of illnesses in the human body. In transportation, they are strong enough to lift a train off its rail and push it forward. Because there is no friction between the train and the rail, it can travel smoothly and at high speeds.

As technology advances, the uses of magnetism are expanding into many areas, from generating energy to creating advanced medical equipment that saves lives. Its ability to be adapted to different needs makes magnetism an important part of modern science and technology. A deep understanding of magnetism is essential for us to make future scientific and technological advancements.

Notes: magnetism ・ ・ 磁気力、磁性 repel ・ ・ 反発する generate ・ ・ 発生させる turbine ・ ・ 原動機
 electromagnet ・ ・ 電磁気 MRI (magnetic resonance imaging) ・ ・ 磁気共鳴映像法 friction ・ ・ 摩擦

問 1 下線部を和訳して、解答欄に記入しなさい。

問 2 磁石の特性について、解答欄に日本語でまとめなさい。

問 3 磁石は現在どのような分野で応用されていますか。解答欄に日本語でまとめなさい。

問 4 次の 1～5 の英文が本文の内容と一致していれば T を、そうでなければ F を解答欄に記入しなさい。

1. The opposite poles of magnets create the force that pulls them together or pushes them apart.
2. If you cut a magnet in half, the particles in each half can never make a north or south pole again.
3. Unfortunately, besides making electricity, there are not many uses for magnets in modern society.
4. Magnetism is the force that can raise a train from its rail and make it travel easily and quickly.
5. It is important for our future that we continue learning all we can about the potential of magnetism.

