受験番号

令和5年8月1日実施

(1)

名古屋市立大学大学院医学研究科博士課程入学試験(1回目) 外国人-英語

I. Read the following sentences and answer the following 5 questions.

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Quoted from : TED Why don't poisonous animals poison themselves? – Rebecca D. Tarvin

Question 1. Select the most appropriate words to fill in the blanks ① to ④ from the list below.

(g) So

(4)

- (a) on (b) off (c) for (d) as (e) to (f) from
- **Question 2.** Why doesn't bombardier beetle get burned by the poison gas it shoots? Select one of the following options and mark it as the most appropriate.

(3)

1. Because it has evolved resistance to poison.

(2)

- 2. Because it can cool the high-temperature propellant gas inside the body.
- 3. It keeps the venom ingredients in two separate places, so they don't mix when sprayed.
- 4. Because it hardens the chambers when the gas is injected.
- **Question 3.** How can poison frogs withstand their own poison?
- **Question 4.** What does "Evolutionary arms race" mean? Explain using garter snakes and salamanders as examples.
- **Question 5.** Select one of the following and mark it as the least appropriate representation of the relationship between prey and predator.
- 1. Grasshopper mice have developed resistance to the venom of their prey, scorpions, by genetic mutation.
- 2. Horned lizards developed resistance to the venom of their prey, harvester ants, by possessing a special blood plasma.
- 3. Sea slugs recycle the venom of their prey, jellyfish, for other purposes.
- 4. Toads are resistant to the poison of the bombardier beetle, which is their staple food.

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II. Read the following sentences and answer the following 5 questions.

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Quoted from: Max Kozlov, Nature magazine on February 2, 2023

Question 1. What is the meaning of "jab" which is repetitively used in the text?

Question 2. Why is it difficult to schedule COVID-19 vaccine compared to influenza vaccine?

Question 3. In which season is the number of COVID-1 9 patients largest in the United States of America?

Question 4. What are the two infectious agents other than COVID-19 prevalent in the winter in the United States of America?

Question 5. Bill Falstich answered "Not necessarily". What is the meaning of his answer?