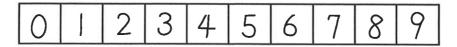
英語

90 分

注 意 事 項

- 1. 試験開始の合図までこの冊子を開かないこと。
- 2. 本問題冊子は18ページ、答案用紙は2ページである。
- 3. 各答案用紙の上の枠内には、**受験番号**を記入し、その右側の枠内には、受験番号の**下2桁**の数字を忘れずに記入すること。
- 4. 解答はすべて各答案用紙の所定の欄に記入すること。
- 5. 問題冊子および答案用紙は切りはなさないこと。
- 6. 答案用紙に記入する受験番号の数字の字体は、下記の例にならい、明瞭に記入すること。



Ι	次の英文を読んで、以下の設問に答えよ。(80点)
Г	
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	本文は,6ページまで続きます

- *1 veterinary pathologist 獣医病理医
- *2 methicillin-resistant Staphylococcus aureus メチシリン耐性黄色ブドウ球菌
- *3 Staphylococcus pseudintermedius 犬の皮膚や粘膜の常在菌叢を構成するブ ドウ球菌種
- *4 mites ダニ
- *5 311 カナダで、緊急性の高くない事件やトラブルを通報する時の電話番号

[Adapted from Becca Cudmore, "The Case for Leaving City Rats Alone," in Hope Jahren, ed., *The Best American Science and Nature Writing 2017*. New York: Houghton Mifflin Harcourt, 2017: 59-64.]

- Ⅰ-1. 下線部(1)を日本語に訳せ。
- I-2. 下線部(2)はネズミが何を得意とすることを指しているか。30字以内の日本語で説明せよ。(句読点も文字数に含める。)
- Ⅰ-3. 下線部(3)を日本語に訳せ。
- I-4. 下線部(4)を英語に訳せ。

- I-5. 下線部(a)から(c)について、それぞれの意味にもっとも近いものをAからEの中から選び、記号で答えよ。
 - (a) "could be boiled down to"
 - A. could amount to
 - B. could be affirmed by
 - C. could be overturned by
 - D. could elaborate on
 - E. could merge with
 - (b) "Before cities were even a glimmer in our eye"
 - A. When cities were constructed of mud and bricks
 - B. When cities were less brightly illuminated at night
 - C. When cities were not yet imagined or built
 - D. When cities were places that people did not feel proud of
 - E. When cities were unpleasant places to live in
 - (C) "usually effectively quarantined to that family"
 - A. commonly well-monitored outside that family
 - B. normally exclusively targeted at that family
 - C. often utterly fatal to that family
 - D. ordinarily well-contained within that family
 - E. typically completely harmless to that family

- I-6. 以下の(1)から(3)の答としてもっとも適切なものをAからEの中から選び、記号で答えよ。
 - (1) Choose the reason that Himsworth is concerned about MRSA, a kind of bacteria.
 - A. MRSA demonstrates that harmful bacteria can be created within the bodies of and spread by rats.
 - B. MRSA demonstrates that harmful bacteria can be deadly to humans as there are no effective medications to cure a person infected by them.
 - C. MRSA demonstrates that harmful bacteria can be transmitted straight from household pets such as dogs to the humans they live with.
 - D. MRSA demonstrates that harmful bacteria can evolve into new strains within infected human hosts.
 - E. MRSA demonstrates that harmful bacteria can kill animals that humans cherish, such as their pet dogs, along with animals that they dislike, such as rats.
 - (2) Look at the word "trees" marked with double underlining on page 4. Choose the best description of what the word "trees" refers to in the article.
 - A. An architectural sketch of burrows in which families of rats live in a particular neighborhood.
 - B. A diagram of the pathways certain rats travel over the course of a set period of time.
 - C. A flowchart depicting the routes along which diseases spread across the city among animals and humans.
 - D. A genetic map showing multiple generations and branches of families among the rat population in an area.
 - E. A geographical survey of forested sections within the city of Vancouver.

- (3) Choose the statement that Himsworth would most likely agree with.
 - A. The government of Vancouver has encouraged citizens to participate in community debates and policy formation on matters that affect everyone.
 - B. The government of Vancouver has exhibited disagreement among various departments on crucial topics such as control of the rat population.
 - C. The government of Vancouver should maintain the characteristics of local communities with different socioeconomic backgrounds.
 - D. The government of Vancouver would be more concerned about rats if they infested the neighborhoods that have influence on public policy in the city.
 - E. The government of Vancouver would be underfunded if they supported scientific research on subjects such as the rats that inhabit the city.

- I-7. 次の1から10の文から、本文の内容に一致するものを3つ選び、番号で答えよ。
- 1. Himsworth is well-known to the citizens of Vancouver for her research on rats and diseases in the city.
- 2. Before the launch of the Vancouver Rat Project, there were only a few minor research studies conducted on rats in that city.
 - 3. Historically speaking, the number of rats dramatically increased after human beings began constructing and living in urban environments.
 - 4. Rat families generally fear going out of their territory for a while after a family member is killed.
 - 5. Rats do not engage in fights with unfamiliar rats unless humans drive them out of their residential areas.
 - 6. The Rat Project scientists purposefully leave used experimental syringes out in places where they set up rat traps.
 - 7. Even if humans do not directly touch the rats that live near them, they can catch diseases from them.
 - 8. An experimental procedure of the Vancouver Rat Project was to identify the illnesses and the mites that rats carry in different areas of the city.
 - 9. Vancouver City officials believe urban development is beneficial for creating rat-free urban spaces for the human population.
 - 10. People in East Vancouver were blamed for feeding birds and growing vegetables in their neighborhood as this was believed to have attracted rats to their local park.

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本文は,15ペ	ージまで続きます	

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*1 pelvis 骨盤

[Adapted from Yao-Hua Law, "Rock-a-Bye Baby's Rocky Roots," *Discover* (June 2017): 66-68.]

- Ⅱ-1. 下線部(1)を日本語に訳せ。人名はアルファベット表記のままでよい。
- Ⅱ-2. 下線部(2)のような状態が進化の上で生じたのはなぜか。その理由を本文に そって50字以内の日本語で説明せよ。(句読点も文字数に含める。)
 - Ⅱ-3. 下線部(3)を英語に訳せ。
 - Ⅱ-4. 下線部(4)を日本語に訳せ。人名はアルファベット表記のままでよい。

II-5. 文中の空欄[①], [②] に入れるのにもっとも適切なものをそれぞれ Aから E の中から選び、記号で答えよ。

- ① A. a lot of conflict
 - B. a tendency for self-sacrifice
 - C. much room for evolution
 - D. plenty of compassion
 - E. scarcely any contradiction
- ② A. a declining trend
 - B. a human universal
 - C. a status-building endeavor
 - D. a vicious circle
 - E. an educational activity

- II-6. 以下の(1)および(2)の答としてもっとも適切なものをAからEの中から選び、記号で答えよ。
 - (1) Look at the underlined part (a). Which of the following does "an evolutionary arms race" refer to?
 - A. competition among infants of the same growth stage for gaining the largest favor from adults
 - B. competition among groups of humans over bodily strength, a factor that determined which groups flourished and which perished
 - C. competition among parents, their younger and older offspring, in acquiring and developing vocalization skills
 - D. the idea that humans who could most efficiently distribute their attention among offspring while carrying out crucial tasks had the strongest chance of survival
 - E. the idea that parents and their infant offspring competed to increase chances of individual survival, according to their contrasting interests or needs
 - (2) Look at the underlined part (b). According to the text, which of the following is true about the statement, "infants are very attentive to that particular signal"?
 - A. A range of stimuli created by parents could influence how infants will respond to future infant-directed songs.
 - B. An infant senses the extent of the caregiver's attention to herself or himself from the vocalization.
 - C. If a caregiver is producing complex sounds, it is enough to soothe the infant regardless of to whom it is directed.
 - D. Infants can distinguish between their mother's voice and a stranger's voice in the quality of their lullabies.
 - E. Simple vocalization signals a high level of focus on the infant, which allows the parent to engage in different tasks.

- Ⅱ-7. 次の1から8の文から、本文の内容に一致するものを2つ選び、番号で答え よ。
 - 1. In times of trouble, parents console themselves as well as their children through song and music.
 - 2. Infant-directed song did not raise the probability of each generation's survival above the level of the preceding one.
 - 3. Singing has been an important tool for adults in their tug of war with infant offspring over a precious resource.
 - 4. Infants are highly selective in the ways that they respond to singing by their mothers as distinct from vocalization by other adults.
 - 5. Krasnow and Mehr's theory has put an end to the debate about how human vocalizations evolved into lullables.
 - 6. Krasnow and Mehr continue to seek various means to verify their theory.
 - 7. The research by Krasnow and Mehr has unexpected benefits for people with genetic conditions that affect their ability to respond to lullabies.
 - 8. There is now broad agreement that infant-directed song is likely to have been the very first form of music making.