

科目

外国語(英語)

医学部医学科

注 意

1. 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. 問題は1ページから9ページにわたっています。
3. 解答用紙は3枚、下書用紙は1枚で、問題冊子とは別になっています。
4. 問題冊子、解答用紙、下書用紙に不備がある場合は、直ちにその旨を監督者に申し出てください。
5. すべての解答用紙の所定の欄に、志望学部・学科(1か所)と受験番号(2か所)を記入してください。
6. 解答は、すべて解答用紙の所定の欄に記入してください。解答用紙の所定の欄以外に記入された解答は、評価(採点)の対象としません。
7. 試験終了後、問題冊子と下書用紙は持ち帰ってください。

- 1 Read the following passage and answer the questions that follow. All questions must be answered in English. Words marked with an asterisk (*) are defined at the end of this passage in the Notes section.

著作物引用箇所のため非公表

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(Elizabeth Pennisi, 2023, *Science*, extracted and modified.)

***Notes:**

vertebrate: an animal having a backbone

salamander: a tailed animal that lives in water and on land

echolocate: to find the way using soundwave

lamprey: any eel-like fish, having a round mouth with horny teeth

hydrostat: an electrical device for detecting the presence of water, as from overflow or leakage.

newt: a small, slender-bodied animal that lives in water and on land

metamorphosis: a process in which something changes completely into something very different

appendage: a part or organ such as an arm, leg, tail or fin

bolus: a soft roundish mass of chewed food

(1) Choose the letter for the most suitable word from the list below, (a) through (i), to fill in the blanks [(A)], [(F)], [(G)], and [(O)] respectively.

- | | | |
|-------------|----------------|-------------|
| (a) arms | (b) guaranteed | (c) teeth |
| (d) road | (e) tip | (f) way |
| (g) granted | (h) feet | (i) touches |

(2) From the options below, select as many appropriate choices (letters) as possible that correspond to the passage's context of (B) the tongue's versatility.

- (a) Snakes use their forked tongues to sense the smells in their surroundings.
- (b) The bone and muscle structures of early fish formed the prototypes for teeth and tongues.
- (c) Salamanders utilize their sticky tongues to hook insects.
- (d) Humans use their tongues only to send signals to their beloved ones.
- (e) Birds lift their heads up high always using their tongues to swallow their prey whenever they catch them.
- (f) Long before early four-legged creatures first ventured onto land, they already possessed tongue-like structures similar to teeth.
- (g) Mammalian tongues are multifunctional; they enable us to eat, speak, kiss, and taste.

(3) Put the words in the square brackets of (C), (D), (H), and (I) in the correct order.

(4) Which theory or idea is suggested by the fact that (E) Managing these functions triggered the expansion of brain capacity? Identify the sentence that answers this question in the passage and provide the first and last five words of the sentence in English. Do not count punctuation marks (“ ”) or periods (.) in your count.

(5) What do (J) those motions refer to? Write your answer following “Those motions refer to” on your answer sheet.

(6) Which of the following descriptions (a) through (f) are included in (K) The tongue's most essential job in mammals? Choose the correct sentences and write the corresponding letters of the chosen sentences in the order as appearing in the passage.

- (a) The tongue serves to position food by moving it from one side of the mouth to the other with each bite, while the tongue skillfully avoids getting bitten by the teeth.
- (b) The tongue helps the food not to get into the airways.
- (c) The tongue, housing taste buds, plays a crucial role in guiding eating behavior across mammals.
- (d) The tongue moves a "bolus" towards the back for swallowing.
- (e) The tongue hasn't been studied as much because it's harder to reach than an animal's outer body parts.
- (f) Adding saliva, the tongue assists in forming a "bolus."

(7) As for (L), how has the tongue developed its movement like a hand of the mouth? Identify one sentence that answers this question the best, and provide the first and last five words of the sentence in English. Do not include quotation marks (" ") or periods (.) in your answer.

(8) Why does Callum Ross count (M) the origin of chewing as one of the course-changing evolutionary transitions? Describe it within 50 English words.

(9) Why couldn't researchers obtain a detailed view of how the tongue maneuvers food, as mentioned in the underlined section (N) "Until recently, researchers couldn't get a detailed view of how the tongue maneuvers food"? Find and copy the sentences from the passage that describe the reasons most appropriately.

- 2 Read the passage below and answer the questions. All questions must be answered in English. Words marked with an asterisk (*) are defined at the end of this passage in the Notes section.

著作物引用箇所のため非公表

著作物引用箇所のため非公表

(Jennifer Couzin-Frankel, 2023, *Science*, extracted and slightly modified)

***Notes:**

cadaver: a dead human body

torso: the main part of the body, not including the head, arms or legs

perfused: recirculated

- (1) As for the underlined statement (A), how was this case different? Make a list of the differences. Each difference must be written in a full sentence in English. You can use some of the expressions in the passage if it is necessary.

- (2) What do you think about the new donation strategy (B)? Write your thoughts about it in about 300 words in English.

受 験 番 号				

外 国 語 (英 語) (3-1)	合 計 点

教 科	外 国 語 (英 語)

(3枚中の 第1枚)

志望学部・学科	受 験 番 号				

- 注 意
- (1) 志望学部・学科を記入すること。
 - (2) 受験番号は、2か所に記入すること。
 - (3) 試験終了後、下書用紙は持ち帰ること。
 - (4) 下線から上部、および裏面には解答を書かないこと。

1

(1) (A) _____ (F) _____ (G) _____ (O) _____ (1)

(2) _____ (2)

(3) (C) _____
 (D) _____
 (H) _____
 (I) _____ (3)

(4) _____
 _____ (4)

(5) Those motions refer to _____
 _____ (5)

(6) _____ (6)

(7) _____
 _____ (7)

採 点

受 験 番 号				

外 国 語	合 計 点
(英 語)	
(3—2)	

教 科	外 国 語 (英 語)
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(3枚中の 第2枚)

志望学部・学科	受 験 番 号

注 意

- (1) 志望学部・学科を記入すること。
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1

(8)

(8)

(9)

(9)

2

(1)

(1)

採 点

