

見本

前期日程

教
科

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7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. 試験開始の合図があってから直ちに問題冊子、解答用紙、下書用紙を確認し、不備がある場合は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、受験番号(2か所)を記入してください。なお志望学部学科欄には「医学部医学科」が印字されています。
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した解答は、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。

実施年月日

8.25

富山大学

1

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

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

Adapted from Pazzanese, C. (March 27, 2024). *The Harvard Gazette*.

Notes:

chatbot: a computer program that can hold a conversation with a person, usually over the Internet

vulnerable: weak and easily hurt physically or emotionally

simulated: not real, but made to look, sound, or feel real

curated: selected and organized

inflection: a turning or bending away from a course

(1) Choose the best option for the blank (A) from the list below and answer with the corresponding letter.

- (a) exposed (b) face-to-face (c) off the track (d) offline (e) on the screen

(2) What does the underlined part (B) specifically refer to? Answer in a phrase or sentence.

(3) Choose the best option for the blank (C) from the list below and answer with the corresponding letter.

- (a) disappointed (b) disappointing (c) frightened
(d) frightening (e) satisfied (f) satisfying

(4) Put the words in the underlined part (D) in the most appropriate order.

(5) For each of the following statements (a)-(e), write "T" if it is consistent with the passage, and "F" if it is not.

- (a) Turkle thinks that using generative AI chatbots to reduce lonely feelings makes matters worse.
- (b) Digital technology can be harmful when it becomes the main means of communication with people close to you.
- (c) Tech executives who engage in generative AI admit that people are superior to generative AI in providing satisfaction in communication if they have expertise and training.
- (d) Some healthcare corporations are planning to use chatbot therapists despite an oversupply of human therapists.
- (e) You can tell how advanced AI chatbots are by how much they sound like human beings.

2

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

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

著作物引用箇所のため非公表

Adapted from Conroy, G. (April 10, 2025). *Nature*.

Notes:

organelle: any structure that has a particular purpose inside a living cell

differentiate: to become more specialized cells or tissues during growth and development

fluorescent: appearing very bright when light shines on it

vesicle: a small structure like a bag within or outside a cell

connective tissue: any fat, bone or other material that supports, connects or separates organs or other parts of the body

adenosine triphosphate: an important chemical that stores energy

platelet: a small fragment of a cell in the blood that stops bleeding

cardiovascular: relating to the heart and blood vessels

in vivo study: a study conducted within a living organism

charitable: providing good things for others

proliferate: to increase in number

(1) Fill in the blank [A] by selecting the most appropriate option from the list below and answer with the corresponding letter.

- (a) It's better than nothing
- (b) Watching it was like a miracle
- (c) The experiment didn't work as expected
- (d) Lung cells finally defeated mitochondria
- (e) We never knew mitochondria could transform into energy

(2) Fill in the following blanks with appropriate words from the passage. Each blank requires one word.

Studies have identified three ways for mitochondria to move between cells. They transfer via _____, _____, or _____.

(3) As for the underlined term (B) cellular damage control, some studies have shown the effectiveness of mitochondrial transfer. In those studies, what donated their mitochondria to damaged cells? Choose all the correct options from the list below and answer with the corresponding letter(s).

- (a) astrocytes
- (b) lung cells
- (c) neurons
- (d) platelets
- (e) stem cells
- (f) stromal cells

(4) Write two specific examples that suggest the possible beneficial role of mitochondrial transfer in daily operations other than controlling damaged cells. Write your answer in around 20 words.

(5) As a result of mitochondrial transfer, what kinds of risks could arise? Write your answer within 35 words.

(6) Put the words in the underlined parts (C) and (D) in the most appropriate order.

(7) Choose all the statements that match the content of the passage and answer with the corresponding letter(s).

- (a) Even when mitochondria are not requested, cells can release them.
- (b) Mitochondria were first discovered in 2006 by Spees and his colleagues.
- (c) The origin of mitochondria as bacteria can explain their dynamic movement.
- (d) What mitochondria are actually doing after they transfer to other cells is yet to be known.
- (e) It is impossible to track mitochondrial transfer because there are too many types of tissues involved.
- (f) Some researchers speculate that cells with damaged mitochondria might have the ability to ask nearby cells for healthy mitochondria.
- (g) A team of scientists did not sleep for a few nights because they did not want to miss the chance to be the first to witness mitochondrial transfer.

3 There are a number of ways of communicating today. Face-to-face communication is preferable in some cases, while written communication such as e-mail or text messages is more suitable in others. In what cases is face-to-face communication more suitable, and in what cases is written communication more suitable? Write your opinion in about 200 words. Support each case with one or more examples and reasons.

見本

受 験 番 号					

外 国 語 (英 語) (3-1)	合 計 点

教 科	外 国 語 (英語)	志望学部・学科	受 験 番 号				
			医学部医学科				

(3枚中の 第1枚)

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

1

(1) _____

(1)

(2) _____

(2)

(3) _____

(3)

(4) _____

(4)

(5) (a) _____ (b) _____ (c) _____ (d) _____ (e) _____

(5)

採 点

受 験 番 号

外 国 語 (英 語) (3-2)	合 計 点

教 科	外 国 語 (英語)	志望学部・学科	受 験 番 号				
		医学部医学科					

(3枚中の 第2枚)

注 意
 (1) 受験番号は、2か所に記入すること。
 (2) 試験終了後、下書用紙は持ち帰ること。
 (3) 以下の点線から上部、および裏面には解答を書かないこと。

2

(1) _____

(1)

(2) They transfer via _____, _____,
 _____, or _____.

(2)

(3) _____

(3)

(4) _____

(4)

(5) _____

(5)

(6) (C) _____
 (D) _____

(6)

(7) _____

(7)

採 点

