

令和 8 年度 大学院医学研究科博士課程
前期入学 第 1 回 入学試験問題
(一般選抜・社会人選抜・外国人選抜)

【1】 Read the text and answer the following questions in English or Japanese.

著作権の関係上、公開しておりません。

(Adapted from <https://biomedicalodyssey.blogs.hopkinsmedicine.org/2024/01/beyond-the-renaissance-nobel-laureates-and-their-creative-pursuits/>)

* lab: laboratory (abbr.)

* PI: principal investigator (abbr.)

* the five-factor model: which is defined as the most widely used and empirically supported model of normal personality traits. It consists of five main traits: Neuroticism, Extraversion, Openness (to experience), Agreeableness, and Conscientiousness.

Q1. Which of the following is the closest meaning of ① “cleaned up” in the passage?

- a. polished them up
- b. held back many prizes
- c. taken home many awards
- d. given up many of them
- e. returned many of them

Q2. According to the article, how does the “openness” attitude of Nobel Prize winners toward their hobbies contribute to their scientific work?

Q3. According to the article, what can scientists expect to be achieved through

② Functional interaction?

Q4. According to the article, what is the most effective combination of factors to promote creativity in scientists?

Q5. What did the author mean with the phrase ③ although your PI might need some convincing?

- a. Perhaps the PI is not interested in stimulation inside the lab.
- b. Perhaps the PI is also looking forward to external stimuli outside the lab.
- c. Because the PI encourages non-linear, associative thinking in the lab setting.
- d. Because the PI believes that the essence of hobbies lies within the lab.
- e. Perhaps the PI is unaware of the potential for new creativity that hobbies outside of the lab can bring.

【2】 Read the text and answer the following questions in English or Japanese.

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(Adapted from The Lancet Diabetes & Endocrinology. 2024 June 12;6:365.
doi: 10.1016/S2213-8587(24)00132-3.)

Q1. Choose the most appropriate answer for (1).

- a. revolution
- b. divide
- c. policy
- d. campaign
- e. market

Q2. Choose the most appropriate answer for (2).

- a. infectious diseases and conditions
- b. autoimmune disorders and conditions
- c. cardiometabolic disease and conditions
- d. neurodegenerative diseases and conditions
- e. musculoskeletal injuries and conditions

Q3. Based on the Sleep Charity's article, explain the current state of insomnia diagnosis and treatment in the UK. Include at least two specific issues mentioned in the article.

Q4. Which of the following factors was NOT explicitly mentioned as a cause of "sleep poverty" in the UK?

- a. poor living conditions
- b. stress from family relationships
- c. noise pollution
- d. uncomfortable mattresses
- e. inadequate beds

Q5. What does the passage suggest as the most effective long-term strategy to address sleep issues?

- a. Increasing the availability of sleeping pills to children.
- b. Launching early childhood education on sleep hygiene.
- c. Reducing digital device usage before bedtime.
- d. Improving the quality of sleep through better bedding.
- e. Enforcing strict work-hour regulations across industries.

【3】 Read the text and answer the following questions in English or Japanese.

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(Adapted from J Infect Dis. 2024 Nov 15;230(5):1061-1063. doi: 10.1093/infdis/jiae397.)

Q1. Choose the most appropriate word for (1).

- a. best
- b. better
- c. most
- d. least
- e. less

Q2. Choose the most appropriate word for (2).

- a. spread
- b. incidence
- c. outbreak
- d. pandemic
- e. prevalence

Q3. Choose the appropriate pair of the words that apply to (3) and (4) in the article.

- a. (3) equivalent (4) decreasing
- b. (3) high (4) equivalent
- c. (3) low (4) increasing
- d. (3) low (4) equivalent
- e. (3) high (4) increasing

Q4. In children, how long does the measles virus RNA remain detectable following infection?

Q5. According to the article, describe the vaccination coverage and number of doses required to achieve and maintain measles elimination.

【4】 Read the text and answer the following questions in English or Japanese.

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(Adapted from <https://www.nature.com/articles/d41586-024-00218-1>)

Q1. Chronologically explain the author's academic and career history in Japanese or English.

Q2. Choose the best word to fill in the blank (1).

- a. randomly
- b. coherently
- c. purposefully
- d. loosely
- e. suddenly

Q3. What does the author mean by "compile a rudimentary introduction"?

- a. Write a well-polished introduction in one sitting.
- b. Create a skeletal introduction with blanks where thoughts slow down.
- c. Compose an introduction that captivates the audience immediately.
- d. Draft an introduction that sets the perfect tone for the paper.
- e. Develop an introduction that goes straight to its destination.

Q4. According to the article, why does the author emphasize studying language construction in papers for non-native English speakers?

- a. Because they need to memorize technical vocabulary for their research field.
- b. Because specific phrases and words do not come naturally to non-native English speakers.
- c. Because grammar rules are completely different in academic writing.
- d. Because they must translate everything from their native language first.
- e. Because scientific journals require a special writing format that schools do not teach.

Q5. According to the author, how should AI text generators like ChatGPT be used in academic writing?

- a. They should never be used under any circumstances.
- b. They can be used to refine sentences and study sentence structuring, but not for direct material use.
- c. They should replace human writing entirely to save time.
- d. They are only useful for generating research ideas.
- e. They should be used primarily for grammar checking.