

【問題用紙】

令和8年度 愛媛大学大学院農学研究科入学者選抜学力検査

(生物環境学 専攻 地域環境工学 コース)

外国語

第 1 頁 (3 頁の内)

問1～3に答えよ。解答は解答用紙に記入すること。

問1. 次の英文を読んで後の問いに答えよ。

Traditionally (from the mid-20th century), the introduction of irrigated rice growing into the Japanese archipelago^{*1} was dated to the beginning of the Yayoi period, which in its turn was dated from 300 BC–300 AD. ①It was thought that rice growing spread very rapidly, in a few centuries, up to the far northeast of the island of Honshū. Since the distribution and management of irrigation systems required a social organization, the Yayoi period would have witnessed the birth of an agricultural society based on rice cultivation. ②This notion formed part of everyone’s general knowledge and was included in Japanese primary school textbooks up to the beginning of the 21st century. ③However, this notion has recently been re-examined and redefined, as it is no longer supported by material evidence.

*1 archipelago : 群島、列島

(出典 : Rice, agriculture, and the food supply in premodern Japan, Charlotte von Verschuer, Routledge, p.4, 2016.)

- (1) 下線部①を和訳しなさい。
- (2) 下線部②の“this notion”は何を指すか、具体的に日本語で答えよ。
- (3) 下線部③を和訳しなさい。

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第 2 頁 (3 頁の内)

問 2. 次の英文を読んで後の問いに答えよ。

The water cycle describes where water is on Earth and how it moves. ①Water is stored in the atmosphere, on the land surface, and below the ground. It can be a liquid, a solid, or a gas. Liquid water can be fresh or saline. Water moves between the places it is stored. Water moves at large scales, through watersheds, the atmosphere, and below the Earth's surface. Water moves at very small scales too. It is in us, plants, and other organisms. Human activities impact the water cycle, affecting where water is stored, how it moves, and how clean it is.

Oceans store 96% of all water on Earth. Ocean water is saline, meaning it's salty. On land, saline water is stored in saline lakes. The rest of the water on Earth is fresh water. Fresh water is stored in liquid form in freshwater lakes, artificial reservoirs, rivers, and wetlands. Water is stored in solid, frozen form in ice sheets and glaciers*¹, and in snowpack*² at high elevations or near Earth's poles. ②Water vapor is a gas and is stored as atmospheric moisture over the ocean and land. In the soil, frozen water is stored as permafrost*³ and liquid water is stored as soil moisture. Deeper below ground, liquid water is stored as groundwater in aquifers*⁴. Water in groundwater aquifers is found within cracks and pores in the rock.

*¹ glacier : 氷河, *² snowpack : 残雪, *³ permafrost : 永久凍土, *⁴ aquifer : 帯水層

(出典 : US Geological Survey, <https://www.usgs.gov/special-topics/water-science-school/science/water-cycle> を一部改変)

- (1) 下線部①を和訳しなさい。
- (2) 本文中に出てくる“saline”の意味を日本語で答えよ。
- (3) 本文中で水は様々なスケールで移動する点が述べられており、大きなスケールとして流域や大気中、地表面下のような場所(領域)が挙げられている。一方、極めて小さなスケールの場所(領域)としてどのような場所が例示されているか、日本語ですべて答えよ。
- (4) 下線部②を和訳しなさい。

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第 3 頁 (3 頁の内)

問 3. 次の英語のニュース記事を読んで後の問いに答えよ。

① A government survey shows that Japan is lagging behind*¹ in the use of generative AI. It shows that fewer people and businesses in the country utilize the technology compared to other major economies.

The communications ministry says it found that 26.7 percent of people in Japan said they had used generative AI. The survey covers fiscal 2024 that ended in March.

The figure roughly tripled from the previous year, but it fell far short of China, where AI usage stood at 81.2 percent. The figure for the United States was 68.8 percent.

People in their 20s were the top users of AI in Japan, with 44.7 percent utilizing the technology. This was followed by people in their 40s and 30s.

The survey also shows that 49.7 percent of Japanese companies were planning to use generative AI.

That also paled in comparison to China and the US, where more than 80 percent of firms aimed to adopt the technology.

*¹ lag behind : 遅れをとる

(出典 : https://www3.nhk.or.jp/nhkworld/en/news/20250714_B2/)

- (1) 下線部①を和訳しなさい。
- (2) アメリカや中国の生成 AI の利用状況や企業の導入予定と比べて、日本はどのような状況か、具体的な数値をもとに日本語で説明せよ。