

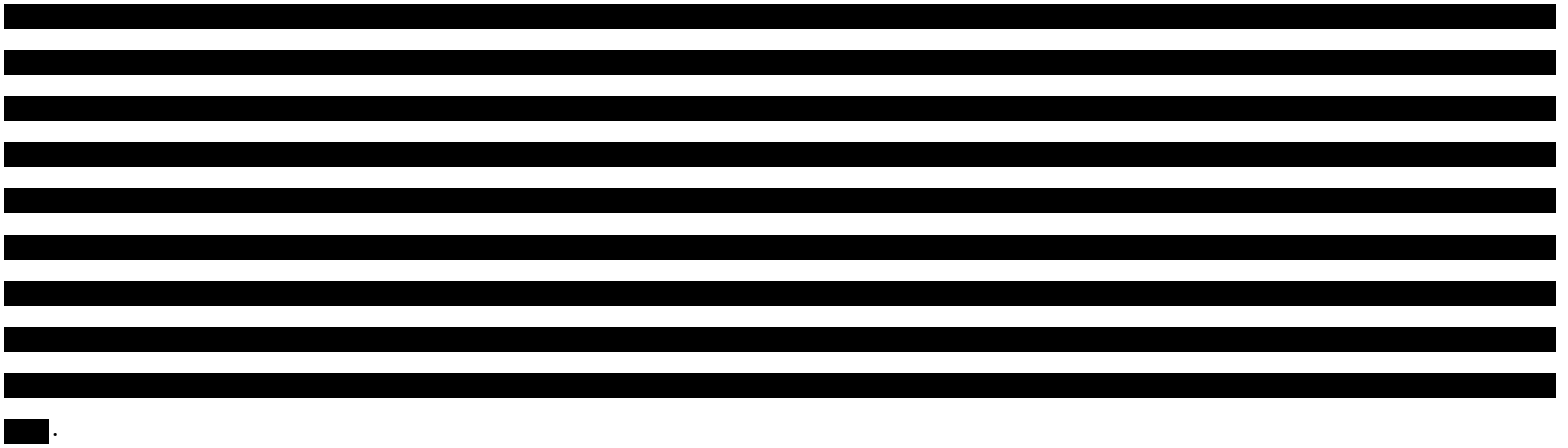
# 大学院入学試験問題用紙

2023 年度 1 期

科目名 Subject	受験専攻 Department & course	受験番号 Examinee's No.	氏名 Name
英語 English	International Agricultural Development, Master's course		

Answer both Question I (on page 1) and Question II (on page 2). Write your name on both pages.

Question I: Read the article below and answer the following questions.



Source: WFP (2022) "Implications of the Conflict in Ukraine on Food Access and Availability in the East Africa Region."  
(<https://docs.wfp.org/api/documents/WFP-0000140223/download/>), accessed on 20 June 2022.

(1) Decide whether the sentences below are correct or incorrect according to the article, and check the appropriate box ()

After the conflict in Ukraine started, food prices in East Africa increased.

Correct     Incorrect

Higher transport costs and increased price of agricultural inputs contributed to a sharp increase in grain prices.

Correct     Incorrect

While the global wheat price increased, the price of maize and rice remained low.

Correct     Incorrect

Reduced agricultural production and blockades in the Black Sea Region led to a reduced availability of staples.

Correct     Incorrect

Major grain producing countries other than Ukraine and Russia did not adopt trade restriction policies.

Correct     Incorrect

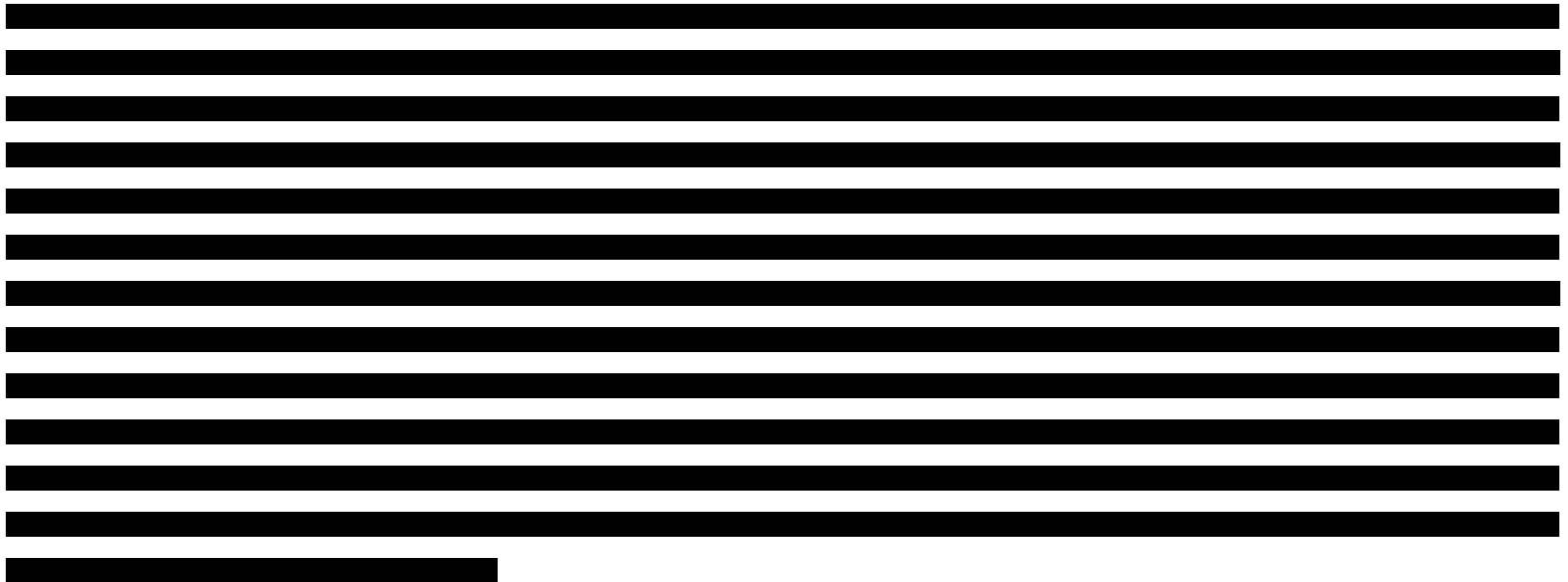
(2) In three to five sentences, explain how reduced global grain supply would affect the food security situation in your country. Use the reverse side to answer. The answer should be based on your experience and knowledge. If you write more than the sentence limit, you will lose marks.

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Question II: Read the article below and answer the following questions.



Source: Deena Robinson (2022) “12 Biggest Environmental Problems Of 2022” (<https://earth.org/the-biggest-environmental-problems-of-our-lifetime/>), accessed on 21 June 2022.

(1) Select the most appropriate answer to the following questions or sentences, and check the appropriate box (☑).

Current soil erosion rates are about 100 times faster than natural rates.

Correct     Incorrect

Frequent tillage is important for improving soil fertility.

Correct     Incorrect

To restore soil fertility, the soil can be left unvegetated for several years.

Correct     Incorrect

Only about 1% of the freshwater on earth is readily accessible.

Correct     Incorrect

Which of the following would be an appropriate title for the above article?

Soil Deterioration and Water     Soil Deterioration and Food     Food and Water Insecurity     Poor Water Management

(2) Briefly describe how to improve the soil fertility of agricultural land, including your own knowledge, in three to five sentences. Use the reverse side to answer. If you write more than the sentence limit, you will lose marks.

# 大学院入学試験問題用紙

2023 年度 1 期

科目名 Subject	受験専攻 Course	受験番号 Examinee's number	氏名 Name
熱帯作物学 Tropical crops science	国際農業開発学 専攻 博士前期 課程 International Agricultural Development (Master's Course)		

熱帯・亜熱帯地域の作物を一つ選び、その作物の特徴（分類、生態的特性、栽培法、用途など）、解決すべき課題について説明しなさい。

Choose one crop from the tropics or subtropics, and then explain its characteristics (classification, physiological and ecological characteristics, cultivation methods, usage, etc.) and challenge for crop production.

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2023 年度 1 期

科目名 Subject	受験専攻 Department & course	受験番号 Examinee's No.	氏名 Name
熱帯園芸学 Tropical Horticultural Science	International Agricultural Development, Master's course		

熱帯における野菜や果実の鮮度保持に関して注意すべき点を述べよ。

What do you think are the important matters to keep freshness of vegetables and fruits in the tropics?

## 大学院入学試験問題用紙

2023 年度 2 期

科目名 Subject	受験専攻 Department & course	受験番号 Examinee's No.	氏名 Name
英語 English	International Agricultural Development, Master's course		

Answer both Question I (on page 1) and Question II (on page 2). Write your name on both pages.

Question I: Read the article below and answer the following questions.



(Source: FAO. 2019. *The State of Food and Agriculture 2019. Moving forward on food loss and waste reduction*. Rome. pp.xii-xiii)

(1) Decide whether the sentences below are correct or incorrect according to the article, and check the appropriate box (☑)

People use different definitions of food loss and waste.

Correct     Incorrect

According to the FAO's definition, food disposed by consumers is food loss.

Correct     Incorrect

Food loss and food waste occur at different stages of food supply chain.

Correct     Incorrect

Animal feed is a form of food waste.

Correct     Incorrect

Food loss and waste measured in physical terms may not adequately represent the economic value of commodities.

Correct     Incorrect

(2) In three to five sentences, briefly describe the examples of food loss and waste in your country. Use the reverse side to answer. The answer should be based on your experience and knowledge. If you write more than the sentence limit, you will lose marks.

大学院入学試験問題用紙

2023 年度 2 期

科目名 Subject	受験専攻 Department & course	受験番号 Examinee's No.	氏名 Name
英語 English	International Agricultural Development, Master's course		

Question II: Read the article below and answer the following questions.

[Redacted Article Content]

(Source: News & views. Environmental science. Atmospheric CO<sub>2</sub> removed by rock weathering. Nature Vol583 9 July 2020 pp204-205.)

(1) Decide whether the sentences below are correct or incorrect according to the article, and check the appropriate box (☐)

Reduction of carbon dioxide from the atmosphere mitigates global warming.

Correct     Incorrect

Crushed basalt or other silicate rock in the ocean removes carbon dioxide.

Correct     Incorrect

Usage of enhanced rock weathering makes it possible to remove over five hundred million tons of carbon dioxide from the atmosphere.

Correct     Incorrect

Canada is one of the three highest potential countries to remove carbon dioxide with application of enhanced rock weathering.

Correct     Incorrect

Enhanced rock weathering is not the only approach to mitigate climate change.

Correct     Incorrect

(2) Make a summary of the above article in about 70 words. You can use the reverse side if needed.

# 大学院入学試験問題用紙

2023 年度 2 期

科目名 Subject	受験専攻 Course	受験番号 Examinee's No.	氏名 Name
農村開発協力学 Cooperation for Rural Development	国際農業開発学専攻 Department of International Agricultural Development 博士前期課程 Master's Course		

【問題】 途上国の農村開発と日本の地域づくりとの共通点および相違点を述べなさい。

Describe common points and different points between rural development in developing countries and rural revitalization in Japan.

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2023 年度 2 期

科目名 Subject	受験専攻 Course	受験番号 Examinee's number	氏名 Name
熱帯園芸学 Tropical Horticulture	国際農業開発学専攻 Department of International Agricultural Development 博士前期課程 Master's Course		

熱帯の途上国において園芸学の果たすべき役割について、あなたの考えを述べなさい。

Describe your opinion on the role of horticulture in developing countries in the tropics.



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2023 年度 2 期

科目名 Subject	受験専攻 Course	受験番号 Examinee's No.	氏名 Name
熱帯作物保護学 Tropical Plant Protection	国際農業開発学専攻 Department of International Agricultural Development 博士前期課程 Master's Course		

## 問題

作物保護とは微生物・植物・動物などの生物によってもたらされる被害から作物をまもることである。しかし同時に、これらの生物を単に駆除したり根絶したりするのではなく、適切な数や程度に管理・保全することがもとめられている。こうした生物の管理・保全の意義について、1) 菌類、2) 節足動物、3) 哺乳類のなかから2つえらんで例をあげ説明しなさい。

## Question

Plant protection is to defend crops from damage caused by organisms such as microbes, plants and animals. At the same time, however, there is a need to manage and conserve these organisms to an appropriate number and level, rather than simply exterminating or eradicating them. Please explain the significance of managing and conserving these organisms with two examples out of the following three categories: 1) fungi, 2) arthropods, and 3) mammals.

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2023 年度 2 期

科 目 名	受 験 専 攻	受 験 番 号	氏 名
農業環境科学 Agricultural Environmental Science	国際農業開発学専攻 博士前期課程 International Agricultural Development (Master's course)		

次の課題から 1つを選び、説明しなさい。紙面不足の場合は、裏面使用可。

- ① 農業由来窒素による地下水汚染の原因と対策
- ② マングローブ生態系の人間社会への寄与
- ③ 沙漠の自然成因と沙漠化の原因

Choose one out of the following three subjects and explain it. You can also use the reverse side of this sheet.

- 1) Causes and countermeasures of groundwater pollution by nitrogen derived from agriculture.
- 2) Contribution of mangrove ecosystems to human society.
- 3) Causes of natural deserts and desertification.