

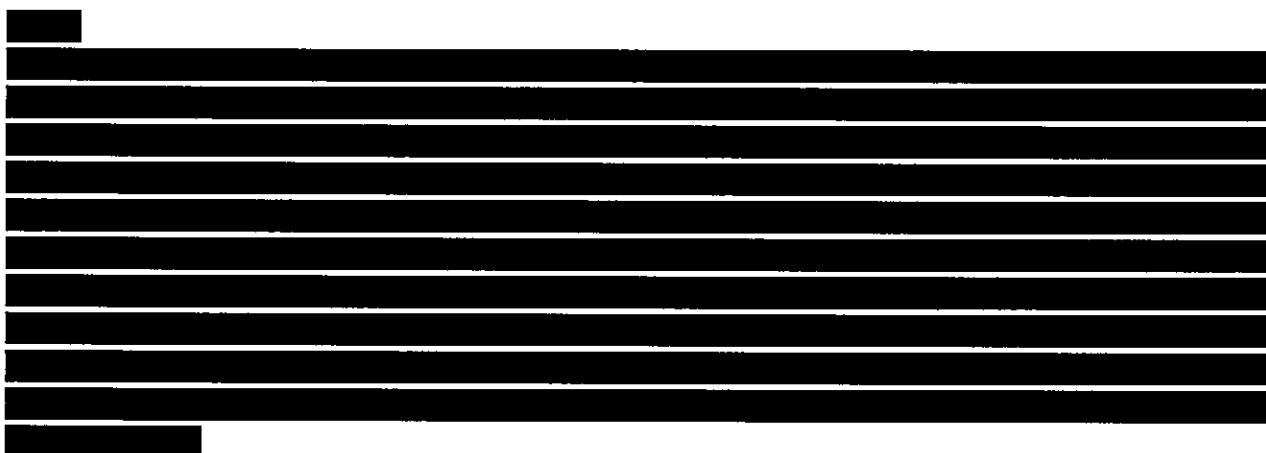
大学院入学試験問題用紙

2022 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: Liu, Y., Barrett, C.B., Pham, T. and Violette, W. (2020) The intertemporal evolution of agriculture and labor over a rapid structural transformation: Lessons from Vietnam, *Food Policy* 94.)

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

The study uses macroeconomic data to examine the structural transformation of agriculture in Vietnam.

Correct Incorrect

Agriculture is the most important sector for employment creation in Vietnam.

Correct Incorrect

The rapid structural transformation in agriculture does not lead to family farm consolidation.

Correct Incorrect

Most smallholder farmers do not use modern inputs or machinery in farm production.

Correct Incorrect

Land endowment becomes less strongly associated with rural household well-being.

Correct Incorrect

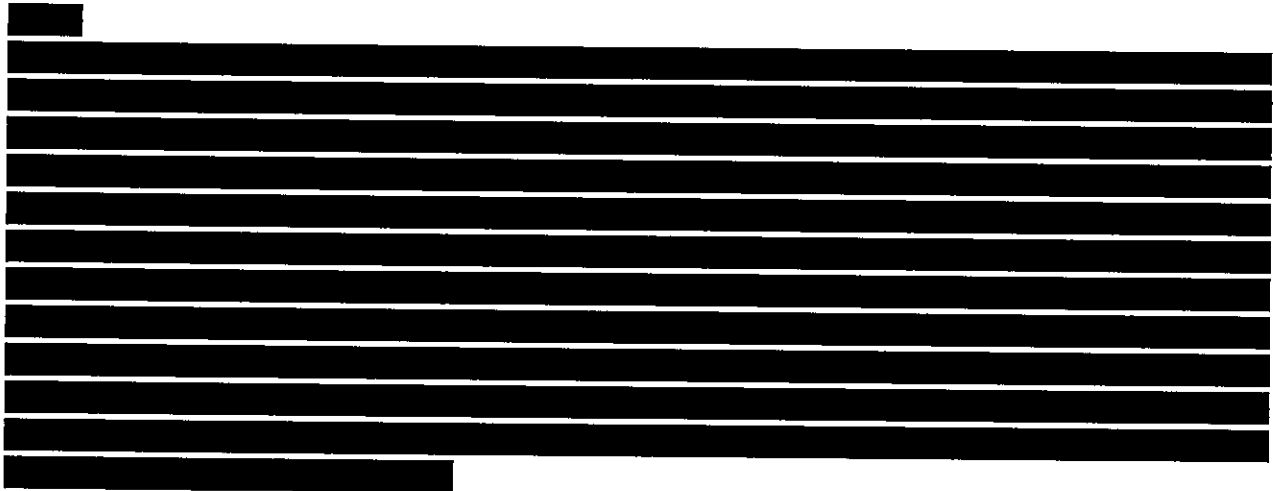
(2) In three to five sentences, give examples of human capital accumulation that lead to improved household well-being. Use the reverse side to answer. The answer should be based on your experience and knowledge. If you write more than the sentence limit, you will lose marks.

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



(Source: Peter J. Gregory, Tobias Wojciechowski. 2020. "Chapter One - Root systems of major tropical root and tuber crops: Root architecture, size, and growth and initiation of storage organs", *Advances in Agronomy*, 161, 1-25.)

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

Authors recognize that researches are enough to understand the function of different storage roots.

Correct Incorrect

Root and tuber crops such as cassava, sweet potato, taro, and yam are the most important source of carbohydrates in sub-Saharan Africa.

Correct Incorrect

The storage organs are same in all root and tuber crops.

Correct Incorrect

Enlargement of adventitious roots on cassava and sweet potato is regulated by genes with starch biosynthesis.

Correct Incorrect

In the growth of storage roots or tubers, available water and nutrient in soil do not make any difference on their growth.

Correct Incorrect

(2) In three to five sentences, explain one of the root and tuber crops which is most important in your country or area as staple food. 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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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 博士前期課程 (Master)		

Describe the importance of tropical horticulture for international agricultural development.

国際農業開発における熱帯園芸の重要性を述べなさい。

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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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2022年度1期

科 目 名 Subject	受 験 専 攻 Course	受 験 番 号 Examinee's number	氏 名 Name
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 活性窒素による地下水汚染の原因と対策 ② サンゴ礁生態系の劣化とその要因 ③ 栄養循環における農業寄与の可能性

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 active nitrogen.
- 2) Degradation of coral ecosystems and the causes.
- 3) Possibility of agriculture in nutrients recycle.

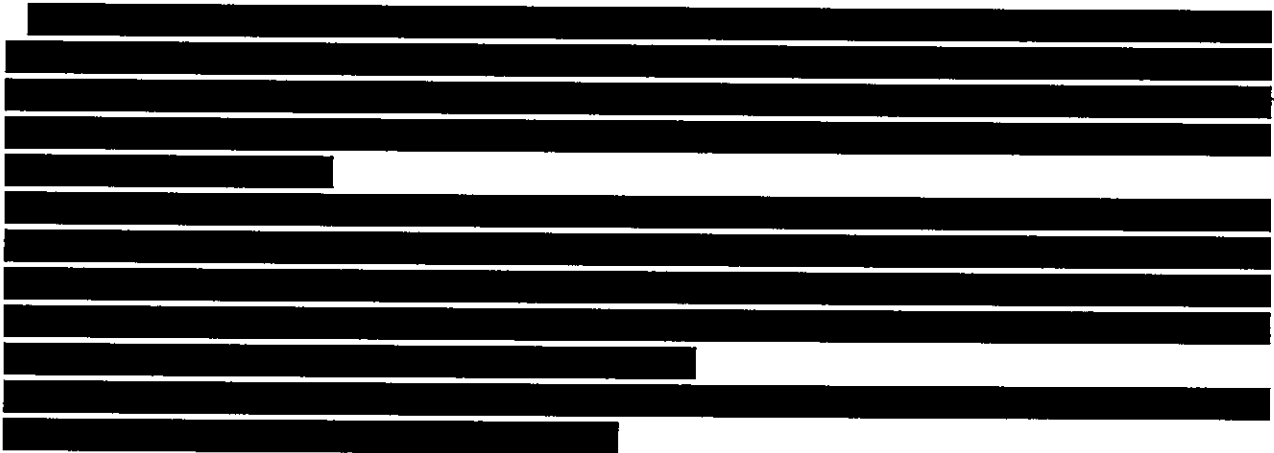
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2022年度2期

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, 2021. *The State of Food and Agriculture 2021, Making Agrifood Systems More Resilient to Shocks and Stresses*, Rome: Food and Agriculture Organization of the United Nations, p.v.)

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

Although the COVID-19 pandemic disrupted agricultural output markets, input markets were not affected.

Correct Incorrect

Marketing of perishable horticultural products was impeded by the restrictions on the movement of people and goods.

Correct Incorrect

During the COVID-19 pandemic, rural people supplemented income by engaging in seasonal work.

Correct Incorrect

Poor people in urban areas spent less money to buy food due to the COVID-19.

Correct Incorrect

Before the COVID-19 pandemic, we expected that by 2030 the global hunger would end.

Correct Incorrect

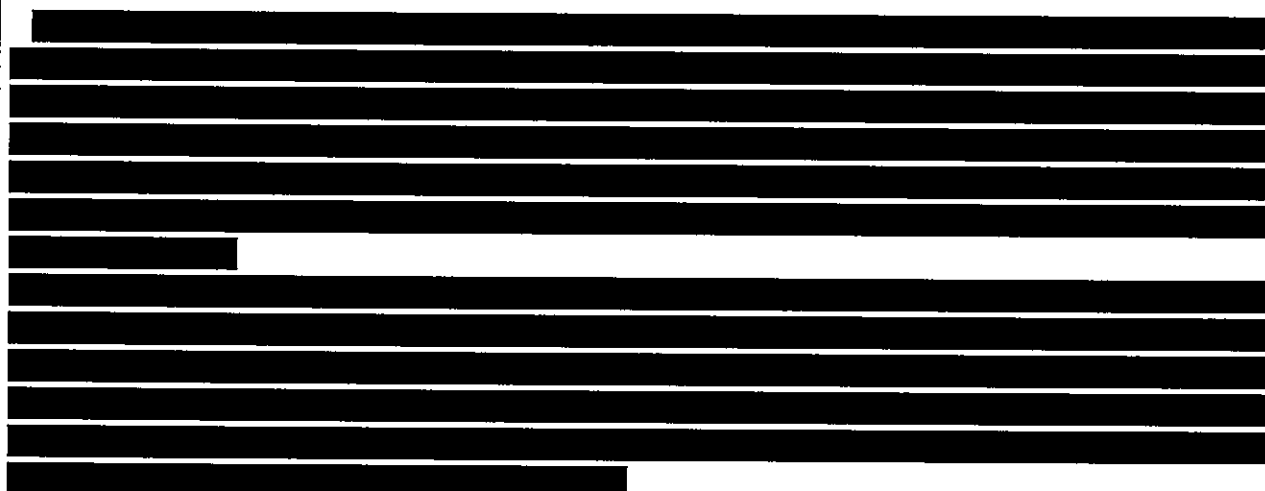
(2) In three to five sentences, give examples of important source(s) of income in poor communities in developing countries. Use the reverse side to answer. The answer should be based on your experience and knowledge. If you write more than the sentence limit, you will lose marks.

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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.



(Source: L. W. Canter, 1996. *Nitrates in groundwater*, Lewis Publishers.)

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

Higher plants can directly use nitrogen in the atmosphere.

Correct Incorrect

An antonym of assimilation used in the article in the form of past participle is anabolism.

Correct Incorrect

Anthropogenic activities have changed the historical nitrogen cycle.

Correct Incorrect

Ammonia exists a lot in acid conditions.

Correct Incorrect

Microorganisms play important roles in promoting transformation of nitrogen compounds.

Correct Incorrect

(2) Make a summary of the article above in about 50 words. You can use the reverse side if needed.

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2022 年度 2 期

科 目 名 Subject	受 験 専 攻 Department & course	受 験 番 号 Examinee's No.	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)		

以下の課題から 1 つ選んで答えなさい。

(Choose one out of the three questions given below and answer.)

1. 熱帯地域におけるイネの品種生態について概説せよ
(Review the characteristics of rice cultivar in the tropical regions)
2. 熱帯・亜熱帯地域で栽培されるヤマイモの生理生態について概説せよ
(Review the physiological and ecological characteristics of yams in the tropical and subtropical regions)
3. 熱帯農業におけるマメ科作物の重要性について説明せよ
(Explain the importance of crop legumes in tropical agriculture)

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科目名 Subject	受験専攻 Department & 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

以下の3つの英文で、Aは1960年代、Bは1980年代、Cは2000年代に発行された文献にみられる総合的有害生物管理 (Integrated Pest Management, IPM) の定義である。これらの定義から、IPMに対する認識がどのように変遷してきたのか、時代背景を考慮しながらのべよ (回答スペースがたりなければ裏面使用可)。

Question

The following three statements A, B and C are definitions of Integrated Pest Management (IPM) that appeared in literature published in the 1960s, 1980s and 2000s, respectively. From these definitions, explain how perceptions of IPM have changed over time, considering the historical background (You can use the reverse side if there is not enough space for your answer).

A.

(FAO. 1967. Report of the first session of the FAO Panel of Experts on Integrated Pest Control, Rome (Italy), Sept. 18-22, 1967, 19 pp.)

B.

(Agricultural Experiment Station, International Plant Protection Center and Department of Agricultural and Resource Economics, Oregon State University. 1981. Economics of integrated pest management: an interpretive review of the literature. Oregon State University. 142 pp.)

C.

(The Children's Health Act of 2000. 2000. The Children's Health Act of 2000, PL 106-310, Title V, Section 511, enacted October 17, 2000. Codified in: Title 42, U.S. Code, Section 300w-3(a)(1)(E))

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科目名 Subject	受験専攻 Department & 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 博士前期 課程 International Agricultural Development, Master's course		

発展途上国（あるいはあなたの国）における社会開発の意義と課題について述べよ。ただし、社会開発の様々な分野のうち、特定の分野に絞って論じてよい。

Describe the significances and issues of social development in developing countries (or in your country).
You can describe it by focusing certain field from various fields of social development.

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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	国際農業開発学 専攻 博士前期 課程 International Agricultural Development (Master's Course)		

Describe the role and challenges of horticulture in developing countries.

途上国における園芸の役割および課題について述べよ（日本語による回答も可）