EC 380: International Economic Issues

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Midterm Exam (Makeup)

Fall 2022

Monday, 11/07/2022 11:00am-12:20pm

Setup

This test will be comprised of 28 questions and must be attempted within 80 minutes of

allocated time.

Questions

Question 1. Autarky Ricardian Outcomes

Suppose we are considering a Ricardian model setting, where countries have not yet opened

up to trade. Two goods are produced exclusively by domestic labor supplies, Cookies and

Cream. Home and Foreign maintain the following marginal productivities of labor (MPL)

in producing products. The two countries labor pools $\bar{L}=25$ are equal in both countries.

Answer the following parts, worth 5pts each.

a) Home has comparative advantage in producing...

b) What is the maximum amount of Cream that Foreign can produce?

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c)	In autarky,	what is the he	ome consump	tion bundle of	Cookies, Cream?	
d)	In autarky,	what is the fo	oreign consum	ption bundle o	of Cookies, Cream	?
e)	Upon openi	ng up to trad	e, what will th	ne production	bundle of the Hon	ne country be?

Question 2: Short Theory Questions

Answer the following short questions, each worth 5pts.

- a) Which one of the following trade models features a fixed opportunity cost of reallocating resources from one industry to another? Circle your answer.
 - 1. Gravity Model
 - 2. Product Cycle Model
 - 3. Ricardian Model
 - 4. Heckscher-Ohlin Model
- b) True or false: A country with absolute advantage in producing both goods does not gain from trade. Explain your choice for full marks.

c) Which model uses underlying technological differences to explain patterns in trade, and why has this argument weakened relative in recent times?

d)	List three key features of the Heckscher-Ohlin model (e.g. number of goods). What mechanism determines the direction of trade flows?
e)	Suppose we are considering a HO model framework. If a country is described as being
	"capital-abundant", what does this entail about their factor endowments and export activity?
f)	If a country maintains status as a capital-abundant country, what happens to labor income upon opening up to trade and departing from autarky?

- g) The following description aligns which model? "Distance between countries and the size of individual economies are predictive of existing trade flows".
 - 1. Gravity
 - 2. Heckscher-Ohlin
 - 3.Ricardian
 - 4. Product Cycle
- h) In the Specific-Factors model, recall that labor is a variable factor input of production. Suppose Home is capital-abundant, relative to Foreign. This implies Foreign is land-abundant. Upon opening trade, what can we state about the change in labor income at Home?

Question 3: General Equilibrium with Tariffs

Suppose we are in an autarky scenario and considering the market for an imported good at Home. Use the following demand and supply functions for solving the various equilibrium scenarios.

Demand:
$$P = 415 - \frac{1}{7}Q_d$$

Supply:
$$P = 10 + \frac{1}{4}Q_s$$

Ensure you show all of your calculations. Each part is worth 5pts.

a) Report the coordinates of the autarky equilibrium point, which represent the price and quantity the market operates at.

b) Calculate the consumer and producer surplus values under autarky. What is total welfare for the economy?

	Suppose Home opens up to free-trade, and becomes exposed to a world price, $P_w = 205$
c)	Calculate the free trade equilibrium values for quantities, imports and surplus values
	Report the change in welfare, relative to autarky.
	Consider a case in which the government intervenes, setting a tariff rate of $t = 15$.
d)	
	(consumer, producer, government). Find the change in welfare, relative to free-trade.
e)	Report the deadweight loss area value.

Question 4: Short Inference Tables

Tariffs on final and input goods are 23% and 56%, respectively. Complete the entries in the table below, expressing the effective rate of protection in each case. 5 pts per question.

a) Calculate the effective rate of protection under the final good tariff rate only.

b) Calculate the effective rate of protection under a scenario in which both tariffs are in effect.

Variable	No Tariff	+ Tariff on Final Good	+ Tariff on Input Good
Price of Domestic Final Good Value of Imported Inputs Domestic Value-Added	3200 250 2950		
Effective Rate of Protection, $\%$	0		

Suppose the UK and France maintain the following capital and labor endowments.

	Capital	Labor
UK	455	480
France	540	650

c) Which country has comparative advantage in producing the labor-intensive good?

d) How would matters change in terms of comparative advantages if suddenly migrants entered France, causing labor to jump up by an additional 200 units?

Question 5: Short Tariff & Trade Policy Questions

a) Explain with visual aid why producers prefer the quota system over the tariff system.

b) If a country shares zero tariff rates with fellow members of this trade agreement and but each member has unique third-party tariff schedules, they are part of a...

c)	When a large country imposes a tariff adjustment, do the resulting consequences play out differently to the small country scenario? Explain.
d)	The UK-EU "Brexit" deal was effective as of January 2020. Which of these international issues remains a key contention in the framework of the new treaty?
e)	Define an act of 'trade diversion' and use an example.
f)	Complete the following statement: "I consider this test to be (blank) in difficulty." Choose from: Easy, Moderate, Difficult, Outrageous.