

Name: _____
Spring 2005

Economics of Development
Practice Quiz 1

1) Circle to indicate whether the statement is true or false.

Statement	Is the statement True or False?
The theory of positive assortive matching (as in the O ring theory) implies that market incentives will lead to training of lower skilled workers before higher skilled workers.	True or False
The Lewis model is designed to explain the process by which an economy changes structurally from a rural agricultural base to incorporate an urban manufacturing sector.	True or False
The Big-Push model assumes constant returns to scale in the traditional technology and increasing returns to scale in the modern technology.	True or False
Romer's endogenous growth theory model is based on the idea of positive spillovers in the economy based on the level of the economy wide capital stock.	True or False
Price elasticities of demand for primary commodities tend to be more elastic than those for manufactured commodities.	True or False
On average, developed countries have a lower share of GNP accounted for by the value of exports than do developing countries.	True or False
An overvalued exchange rate makes the price of exported goods higher than they would be if the exchange rate was determined by market forces.	True or False
A free trade area has free trade among member states, common external tariffs against non member states, and free movement of labor and capital among member states.	True or False

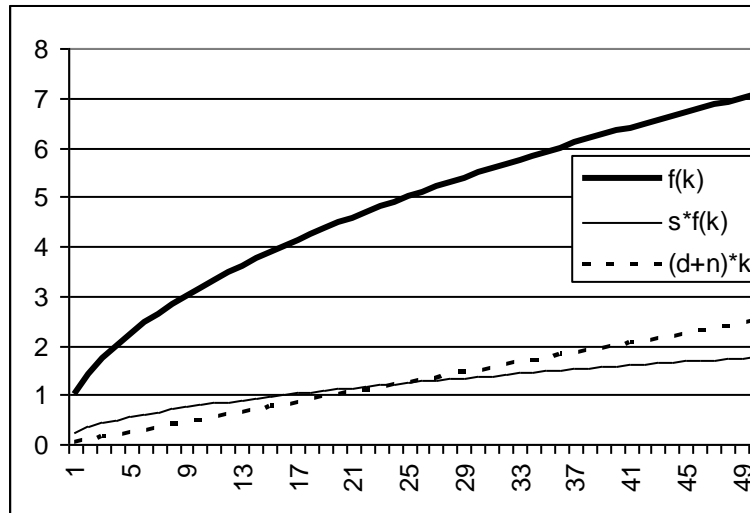
2) Technological progress.

a. Illustrate on an isoquant the impact of (Hicks) neutral technological progress.

b. Contrast the treatment given to technological progress in exogenous growth theory with that in endogenous growth theory.

3) Growth theories.

- a. This is the graph of the equilibrium in the Solow model. Does an increase in the savings rate lead to temporary or permanent growth in income per capita? (the y axis is output per worker and the x axis is capital per worker). Illustrate on this graph and explain your answer.



- b. You are given the following equation: $\frac{\Delta Y}{Y} = \frac{s}{k}$. Identify the model from which this equation is drawn, explain what this equation means, and contrast the implication for an increase in s on growth according to this equation with that of the Solow model above.

3) East produces 5 hats per worker, and 2 cans of beans per worker. West produces 4 hats per worker and 1 can of beans per worker.

a) If there are 100 laborers in East and West respectively, describe the level of production of each commodity in each country in autarky if they divide up their labor force with 50 workers allocated to each commodity.

	Hats	Cans of Beans
East		
West		

b) Identify the commodity for which each country has a comparative advantage.

c) Contrast the idea of an absolute advantage with comparative advantage using this example.

5) Given the following matrix based on the merchant guild example, answer the following questions.

		RULER			
		Security		No security	
TRADER	Bring Goods	$\frac{1}{2}$	$\frac{1}{4}$	-1	1
	Don't Bring Goods	0	$-\frac{1}{4}$	0	0

- a) Describe the best response strategies in this game and identify the Nash equilibrium outcome.
- b) Describe how this model illustrates how a failure to coordinate actions leads to a sub-optimal outcome.
- c) In the context of the development of trade, describe how this model illustrates the commitment problem.

7) Match the model / theory to the assumption.

Model	Write the number of the model	Assumption
1) Lewis Model		Strong complementarity and specialization in division of labor
2) Romer Model		Labor is allocated equally across N sectors in the economy.
3) Big-Push Model		Increasing returns to scale are due to capital stock spillovers
4) Solow Model		Technological progress occurs at a constant, exogenously determined rate.
5) Stages of Growth Theory		The capital output ratio is a fixed constant.
6) Harrod Domar		Given temporary protection, cost curves will fall over time as firms learn by doing.
7) Infant Industry		Surplus labor exists in the agricultural sector that can be absorbed into the manufacturing sector.
8) O-Ring Model		During the takeoff stage, net investment increases to over 10%.

