Final.			
Name:			

Spring 2021 Economics of Development

Each question is worth three points; sub-questions are allocated an equal share of the total points per question. Total exam is 30 points.

1) Agriculture.

a) Describe the three main types of agrarian systems found in the developing world and note in which geographic region is each one most commonly associated.

b) What is the implication of the inverse relation between farm size and productivity for a program designed to redistribute land from large land holdings to smallholders?

- 2) Kuznets curves.
- a) Draw the original Kuznets curve and label everything clearly.

b) Explain the logic behind the shape of this curve.

c) Explain how the curve Kuznets drew using the data available at the time illustrates the danger of using cross sectional data to support a theory about how conditions in a country will change over time.

- 3) Demographic Transition.
- a) Draw a figure illustrating the demographic transition and note the different stages.

b) Explain why the one rate you drew in (a) decreased before the other rate decreased.

c) Explain why there is concern that a country could get stuck in stage 2 of the transition.

4) Inequality.

a) Draw a Lorenz curve for the distribution of income in a country. Be sure to label the axes.

b) Draw another Lorenz curve that has a more unequal distribution than the one in (a).

c) Describe how to compute the Gini coefficient for each of these two Lorenz curves, and argue whether the coefficient in (b) will be greater than (a) or vice versa.

5) Wealth Accounting by the World Bank.



FIGURE 2.2 Composition of Wealth, by Income Group, 2014 percent

Note: OECD = Organisation for Economic Co-operation and Development.

a) Briefly explain the methods used to develop these estimates.

b) Briefly explain what these estimates indicate are the main differences between the wealth of high-income OECD countries and low-income countries.

6) True or False

Statement	Circle whether the statement is	
	true or false	
There is a positive correlation between income per capita and	True	False
the share of the population that lives in urban areas in cross		
sectional comparison of countries.		
The majority of people in the developing world's labor force are	True	False
engaged in the manufacturing sector.		
The world population growth rate over the past decade is the	True	False
highest ever experienced in human history	IIuc	1 4150
inghest ever experienced in numun instory.		
A Disability Adjusted Life Year is calculated as the sum of the	True	False
Years of Life Lost (YLL) due to premature mortality in the		
population and the Years Lost due to Disability (YLD) for		
incident cases of the health condition.		
Estimates of illegal narcotic transactions are included in	True	False
calculating the size of the informal sector.		
The value of all remittances sent from OECD countries to	True	False
developing countries is included in the OECD measure of		
official development assistance (ODA).		
Estimates of current global population are in the 21-21.2 billion	True	False
people range.		
Dietary assessment is a method to investigate undernutrition.	True	False
The United States is the largest donor of ODA of any country in	True	False
the world in terms of ODA as a share of Gross National Income.		
Per Capita food production is increasing by around 1% per year	True	False
overall for the world.		
The Foster Greer Thorbecke (FGT) index measures poverty	True	False
according to three key depravations; of life, of basic education,		
and of overall economic provisioning.		
Dumping is international price discrimination in which an	True	False
exporting firm sells at a lower price in a foreign market than it		
sells for in its home country market. The idea is to use this to		
eliminate foreign competitors, later rising prices after the		
competition is gone.		

7) Hidden momentum of population growth

a) Fill in the following tables. Fr stands for the total fertility rate of the associated age cohort during their reproductive years. Assume all future youth cohorts will have a total fertility rate of 2 in their reproductive years. Total population is for males and females; assume 50% of the population is female. The number in each cell of the table in rows a,b, and c should describe the number of females in each cohort in a given generation.

Country A

	Generation	Generation	Generation	Generation
	1	2	3	4
a.Pre-reproductive				
cohort, Fr=2				
b. Reproductive				
cohort, Fr=2				
c.Post reproductive	1600			
cohort, Fr=4				
Female Population	8000			
Total population	16000			

Country B

	Generation	Generation	Generation	Generation
	1	2	3	4
a.Pre-reproductive				
cohort, Fr=2				
b.Reproductive				
cohort, Fr=4				
c.Post reproductive	800			
cohort, Fr=6				
Female Population	8000			
Total population	16000			

b. Describe how your findings on total population for the two countries by the fourth generation illustrate the concept of **the hidden momentum of population growth**.

8) Poverty measures.

Person number	Income per day
1	\$0.06
2	\$0.36
3	\$0.52
4	\$0.84
5	\$0.90
6	\$1.24
7	\$2.26
8	\$3.98
9	\$4.72
10	\$5.12
TOTAL INCOME	\$20.00

TOTAL INCOME

a) What is the headcount, the headcount index, the total poverty gap, the average poverty gap, the average income shortfall, and the normalized average income shortfall if the poverty line is defined as \$1.90 per person per day? H=

HI=			
TPG=	 	 	
APG=	 	 	
AIS=	 	 	
NAIS=	 	 	

b) If we take \$1.00 from person 7 and give it to person 6, is there any change to the headcount index? Is there any change in the total poverty gap?

c) What share of total income is held by the highest quintile and what share is held by the lowest quintile (before the redistribution of part b - go to the table above to calculate)? Highest=

Lowest=

9) Education

a) Fill in the labels for lines and areas on this graph



b. Explain how you could use this figure to calculate the private rate of return to education.

- 10. Urbanization.(3 points)
 - a. Contrast "urban giantism" with "first-city bias".

b. Contrast "backward linkage" with "forward linkage".

c. Describe how the Harris – Todaro migration model explains continued rural to urban migration in spite of there already being existing urban unemployment.

Extra Credit (get them all, get 1 bonus point).

Fun with Acronyms: Write out what the acronym stands for

ESAF	
MCA	
UNCTAD	
HIPC	
ICOR	