Mid-term Exam, March 20,2001, Room# LH301 Time Duration: 2 Hours.							
Please write your answers on the exam itself, and for multiple choices, put tick-mark(s) in the [] corresponding to your choice of correct answer(s).							
Your name — , Student ID # —							
1. Suppose during 1996-1999, the country Imagineme's exponential annual growth rates of GNP, labor and capital are respectively 6.01%, 1.71% and 9.13%, and the average shares of labor income and capital income in national income are respectively .652 and .348. Suppose, GNP at time t is given by the production function $Y(t) = A(t)F(K(t), L(t))$. Recall the growth accounting formula:							
$r_Y = r_A + \eta_{FL} \cdot r_L + \eta_{FK} \cdot r_K$							
where, η_{FK} and η_{FL} are respectively the rental income share and labor income share of GNP							
(i) (5 points)							
$[\] \ 1.23121\%$ $[\] \ 1.24784\%$ $[*] \ 1.71784\%$ $[\] \ 0.02191\%$ none of the above, the correct answer is							
(ii) (5 points)							
$[\] \ 4.09340\%$ $[*] \ 3.17724\%$ The contribution of growth in capital $[\] \ 0.82302\%$ $[\] \ 0.02531\%$ none of the above, the correct answer is							
(iii) (5 points)							
[*] growth in capital [] growth in labor The major source of growth in income is [] growth in total factor productivity growth none of the above, the correct answer is							
(iv) Another country Competeme is currently about at the same level of development as Imagineme, but has been growing its GNP at a faster rate of 8.01 % per year. The country Competeme has the total factor productivity growth rate of 1.72%, contribution of growth in labor as 3.12% and the contribution of growth in capital as 3.17%. In the light of higher growth performance of Competeme, you would like identify a source of growth to focus your policies on.							

Econ 333: Economic Development: Spring 2001

Professor L.K. Raut

	(a) (5 points) Is it growth in capital, labor or total factor productivity?LABOR					
	(b)	(5 points) Suggest at least three government policies that will achieve higher growth in the factor that you identify.				
	(5	maints) Duning 1060-1090 India's annual arough note of CND was 5.00/ man year and				
	(3	points) During 1960-1980 India's annual growth rate of GNP was 5.0% per year and population growth rate was 3.0% per year. India's growth rate of per capita income				
		during the period was				
		$[\]\ 1.667\%$ $[\]\ 2.667\%$				
		[*] 2.000%				
		[] 3.000% none of the above, the correct answer is				
2	This prob					
۷.	-	olem relates to Lewis growth model.				
		oints) Check the correct answers. As a model of development, Lewis model is better n Harrod-Domar model because				
		It models explicitly the structural change				
	[]	It captures the labor absorption process but Harrod-Domar does not It places savings and investment as a main force of development, Harrod-Domar does not It explains better the rural-urban migration process, Harrod-Domar does not.				
	(b) (5 pc	pints) Check one. The surplus labor in agriculture are those whose				
		[] whose average product is zero				
		[*] whose marginal product is zero				
		[] whose marginal product equals average product				
		[] None of the above, the correct answer is				

	(c) (5 points) Check the statements that are correct. The labor absorption rate in the Lewis model will be slower if						
	[] faster is the population growth rate						
	[*] higher amount the capitalist invest in developing labor saving technological change						
	[] higher amount of foreign capital inflow (into the country)						
	[*] Higher amount of capital outlow (out of the country)						
	[1] ringiner amount of capital dation (dat of the country)						
3. (5 points) (Keep up to 4-digits before you round-off. No partial credits for wrong an The following is the National Income Statistics of a country called Faraway.							
	Year GNP						
	1990 286						
	1991 300						
	1992 320						
	1993 336						
	Faraway's population growth rate during 1990-1993 was 1.2 Per capita income of Faraway during the period 1990-1993 was growing annually at the rate of (Check one)						
	[].0123						
	[].0301						
	[*] .0552						
	[].1215						
	None of the above the correct answer is						
4.	Let us denote by g_Y the growth rate GNP, by s the savings rate and v the output-capital ratio in an economy. The Harrod-Domar model of economic growth and development derived a simple formula linking savings rate to growth rate of GNP as follows:						
$g_Y = v \cdot s$							
	(a) (5 points) Currently Bangladesh has a savings rate of 15 percent, and the annual growth rate in total output is 5.0 percent per year. The capital-output ratio v for Bangladesh is:						
	$[\;]\;1/2$						
	[] 1/4						
	[] 3						
	[*] 1/3						
	LJ						
	(b) (5points) Suppose the output-capital ratio of Bangladesh is 1/4. Bangladesh would like to increase its growth rate of total output from 5.0 percent to 6.0 percent per year, what						

[] 10 [] 20 [*] 24 [] 30 [] 36
(c) (10 points) Recommend three important policies that might help Bangladesh to increase its savings rate.
5. (Answer these questions very precisely and clearly in the space provided below):

(a) (10 points) What are the common characteristics of the less developed countries and

should be the corresponding savings rate in percent?

how do they differ from the industrialized countries?

(b) (5 points) Comment on the following: The essence of the argument that per capita income and growth rates can be misleading indicators of development is that these measures ignore the distribution income.

(c) (10 points) Using your answer above explain what are the main goals of development economics. (In answering this question, clearly explain what is meant by economic development, and why do we need a separate discipline such as Development Economics).

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6. (5 points) Describe in words (no graph necessary), the structure of the Lewis model and how Lewis explains the process of development.