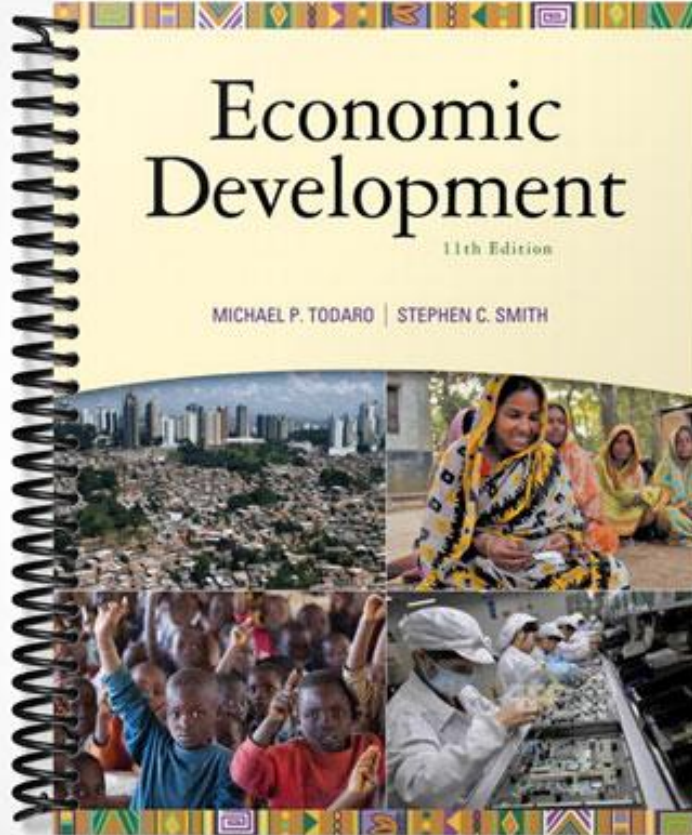


SOLUTIONS MANUAL

**Economic
Development**

11th Edition

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Chapter 2

Comparative Economic Development

■ Key Concepts

In the new edition, Chapter 2 serves to further examine the extreme contrasts not only between developed and developing countries, but also between different developing countries.

As in the last edition, Chapter 2 introduces quantitative comparison methods. After classifying countries as low-income, lower-middle income, upper-middle income, high income OECD, and other high-income countries (in accordance with the World Bank's income classification structure), Purchasing Power Parity (PPP) is explained as a tool to make more accurate comparisons between countries based on income level. As an alternative to the World Bank's classification based on income, Chapter 2 looks at other key development factors such as education and gender inequality, mainly through an introduction to the Human Development Index and how it is calculated. This edition also introduces students to the new Human Development Index and how it differs from the original HDI. It emphasizes the calculations of these two indexes and how a nation's income level is often not consistent with its HDI or NHDI. Numerous new country comparison tables were added to better illustrate this point.

The new edition emphasizes the similarities among developing countries. The chapter stresses ten key similarities of developing countries:

- Low levels of living and productivity
- Low levels of human capital
- High levels of income inequality and absolute poverty
- High rates of population growth
- Social fraternization
- Large rural population with rapid rural-urban migration
- Low levels of industrialization
- Adverse geography
- Underdeveloped financial systems and markets
- Lingering colonial impact and external dependence

The subsection on the relative importance of private and public sector and civil society has been eliminated from this chapter. Within the discussion of these similarities are highlights of the diversity among developing nations despite their commonalities.

The chapter goes into greater detail when discussing that developing countries began modern economic growth with initial conditions much different from those of the developed countries. In comparison to the position of the developed countries on the eve of their development, many of today's LDCs have:

- more limited natural resource endowments.
- lower per capita incomes.
- a less temperate climate and possibly unfavorable geographic conditions.

- larger population sizes and growth rates.
- fewer migration possibilities, but a larger “braindrain” problem among those who do migrate (the new edition specifically addresses the problems associated with remittances).
- fewer growth benefits from international trade.
- limited scientific and technological research capacity.
- ineffective domestic institutions.

This section is followed up by a discussion as to whether the living standards in developing and developed nations are starting to converge.

A section on the long-run causes of comparative development provides a framework linking these causes, designed purposely to give students a foundation for the following chapters which discuss different theories of economic development. Included is a diagram that is helpful for students when trying to visualize the linkages.

The chapter ends with a case study on Pakistan and Bangladesh.

■ Lecture Suggestions

To avoid presenting list after list of similarities and differences between countries, students find it more interesting if you ask them to come up with the list and then fill in any items they have missed, as noted in the discussion topic section below.

If you did not already discuss interesting statistics (or covered those very briefly) you could do this here as part of the discussion of common characteristics. Interesting statistics include data on the distribution of income, the percentage of people by region or country who are absolutely poor, life expectancy, infant mortality, literacy, and health indicators. The discussion of common characteristics can be viewed as a preview of topics to be discussed in more detail later in the course. Interesting questions can be raised that will be answered throughout the course. The questions that students ask at this stage can indicate which topics they are interested in, their knowledge of some of these topics, and any misconceptions they may have about various development issues.

Note that the text discusses GNP as opposed to GDP, though both terms are defined in the chapter. Given that many principles of macroeconomics textbooks focus on GDP rather than GNP, it may be helpful to remind students of the difference. You can also discuss which may be the better measure for less developed countries and/or whether there is likely to be a significant difference between the two. Look up some examples for different countries. Stressing this issue depends, of course, on the background of the students.

When discussing the classification of developing countries as either low income, lower-middle income, or upper-middle income you can also discuss:

- Classifying countries using GNP per capita, or the human development index and comparing the two classifications. Show the students what factors are represented in the HDI and how it is computed (note the new coefficients in the newer version). This can further focus student attention on the broader meaning of development and the importance of looking beyond average income levels. The table on page 52 can help students contrast GDP per capita with HDI levels to show that a certain level of GDP does not guarantee an equivalent HDI. Starting on page 54, eight new changes are outlined as of 2010.
- The GNP conversion problem. In order to classify countries according to GNP per capita each country’s GNP must be converted to dollars. This discussion can first review the definition of GNP and what counts and does not count in GNP. In particular, non-market transactions may be more prevalent in less developed countries. Nominal versus real GNP can also be reviewed. The concept of an exchange rate can be introduced here, as can fixed versus flexible exchange rates, in terms of highlighting problems

with exchange rate conversions. A distinction can be made between market and central-bank determined exchange rates and mention that, in the past two decades, many LDCs have adopted market rates. To explain purchasing power parity you can look up the latest Big Mac index from *The Economist* magazine.

- Characteristics such as education, literacy, and share of industry in GNP tend to change predictably with the level of GNP.

The diversity that exists between developing nations can be discussed partly by highlighting the differences between countries in Africa, Asia, and Latin America in terms of colonial experience, income level, political regime, wars, culture, trade strategy, and level of education. To further highlight specific country differences, such as size and resource endowments, it is useful to focus on one or two countries and point out the differences between them, as well as the special challenges each country faces.

Introduce the concepts of modern economic growth and structural change. Traditional society and modern economic growth can be placed in historical perspective and a short discussion on the different conditions faced by developing countries and currently developed countries can follow. The legacy of colonialism and dependence in representative countries from various developing regions can be contrasted.

Discuss the various theories of Comparative Development.

■ Discussion Topics

- Ask the students what they think the common features of developing countries are and make a list of their suggestions on the board. At the end, add anything that they have missed. Along the way you can elaborate on their suggestions.
- Ask the students whether they think becoming more economically developed is equivalent to becoming more industrialized. You can present data on the share of industry in GDP, discuss the difference between necessary and sufficient conditions, and introduce the concept of modern economic growth and the structural changes that go along with development (this is discussed further in Chapter 3 as part of the structural change theory).

Students will find it instructive to review the many differences between Europe on the eve of its postwar “miracle” and developing countries at their time of independence. These differences include infrastructure (at least engineering plans for destroyed sections), human capital (such as industrial skills even if industry was destroyed), magnitude and type of capital inflow, values of modernity, developing countries lower political autonomy and the legacy of colonialism, and the fact European countries not only were not colonies themselves but owned colonies. This topic can also be discussed in Chapter 3 as part of the discussion of the Harrod-Domar model. The Harrod-Domar model worked well for the European countries after WWII because they had the right complementary inputs in place.

■ Sample Questions

Short Answer

1. Explain how low levels of living can turn into a vicious cycle in developing countries.

Answer: See the section on low levels of living in the chapter.

2. Carefully explain some of the similar problems faced by otherwise diverse countries in Africa, Asia, and Latin America.

Answer: This calls for students to summarize some of the main points discussed in the chapter.

3. What are some of the main ways in which the economies of developing countries differ from one another?

Answer: See the Key Concepts above for a summary.

4. Explain why purchasing power parity measures of income levels tend to show a smaller difference between poor and rich countries.

Answer: PPP measures show the number of units of developing country currency required to purchase a basket of goods and services in the developing country market that costs one dollar in the U.S. Prices for most services tend to be much cheaper in developing countries than in the U.S.

5. In what way does nationalism tend to be a hindering force in attaining modern economic growth and development, and in what way a facilitating force?

Answer: This is a question that would depend on what you have covered in lecture.

6. What are the three main indicators that make up the Human Development Index?

Answer: Life expectancy, educational attainment, GDP per capita measured in PPP terms.

7. If countries are first ranked by level of real GDP per capita, and then by the value of the Human Development Index, would you expect the ranking of countries to be similar or different? Explain.

Answer: The final column of Table 1 in the Human Development Report (hdr.undp.org) shows the difference in ranking between the two classification methods and students can be directed to that.

8. Comment on the following statement: The level and growth rate of real GDP per capita can be a misleading indicator of development. At the same time, countries that experience sustained increases in real GDP per capita over time will tend to be more developed.

Answer: Open-ended essay.

9. What are the three major components of economic growth?

Answer: Capital accumulation, labor force growth, and technological progress.

10. Explain the lingering effects of colonialism and how it is still playing a role in hindering economic development in the developing world.

Answer: Answers should be based on the points covered in the section on the colonial impact as well as in lecture.

11. Why might the use of more advanced technology not be a sufficient condition for sustained economic growth?

Answer: It may require an inefficiently high capital labor ratio and complementary factors, especially education, may be lacking. Additional points depend on lecture coverage.

12. The 2006 Human Development Report reported that the HDI of South Africa was 0.653 (and its rank was 121) and that of the Peru was 0.767 (and its rank was 82). South Africa's per capita income (in PPP dollars) was 11,192 and that of Peru was 5,678. Comment and explain.

Answer: Instructors can use figures similar to those in the question from the most recent issue of the HDR (*at hdr.undp.org*) in updating this question. Students should discuss the difference between economic growth (per capita income) and economic development by discussing the components of the HDI.

13. What are remittances and what role do they in developing countries? How could this potentially benefit an economy?

Answer: An answer should pose a definition, mention how remittances reduce poverty for many migrants and their families, and speak to the possible net increase in labor force skills driven by the desire to emigrate.

14. Are living standards in developed and developing countries converging? Give evidence to support your answer.

Answer: Answers should refer to Figures 2.8–2.10 and the supporting text.

How do differences in culture lead to comparative development?

Answer: Cultural factors effect the development and amount of emphasis put on education, institutions, and how effective civil society is. An important part of the answer should be how the role of culture has not been clearly established due to its complexity.

15. In what way(s) do the development paths chosen by Pakistan and Bangladesh differ? What are the main factors that have contributed to these differing paths?

Answer: The key differences are the aspects of economic development discussed in the chapter. The case study at the end of the chapter provides comparative figures for the two countries and the main factors contributing to the divergent paths.

16. How is poverty measured? What is the extent of poverty in the developing world?

Answer: The concept of absolute poverty is discussed in the text and the progression of absolute poverty in the developing world is shown in Figure 2.7. If the concept of relative poverty was discussed in the lectures, instructors may look for that distinction in the answer.

17. What are the major differences between the new HDI and the original HDI?

Answer: Open ended essay. Refer to pages 54–56 of text for the discussion.

■ Multiple Choice

1. An example of an upper-middle income country is
- India.
 - Brazil.
 - Indonesia.
 - Nigeria.

Answer: B

2. A newly industrialized country is
- the same as a high income country.
 - any country that has experienced sustained growth in industry.
 - a special classification given to some upper-middle income countries that have achieved relatively advanced manufacturing sectors.
 - any country that has moved out of lower income status.

Answer: C

3. Which of the following is not an upper middle-income country?
- Brazil
 - South Africa
 - Pakistan
 - Argentina

Answer: C

4. Which of the following is a low-income country?
- Mexico
 - Thailand
 - Turkey
 - Bangladesh

Answer: D

5. One of the components of the human development index is
- the percentage of the population who are high school graduates.
 - the average daily intake of protein.
 - life expectancy at birth.
 - the number of doctors per hundred people in the population.

Answer: C

6. What percent of the world's nations have at least five significant ethnic populations?
- 0–10
 - 10–20
 - 20–30
 - 30–40
 - over 40

Answer: E

7. What fraction of developing countries have recently experienced some form of significant interethnic conflict?
- less than one-tenth
 - a tenth to one-quarter
 - one quarter to one half
 - over one half

Answer: D

8. Which of the following African countries has experienced widespread death and destruction due to ethnic or clan based conflict in the previous decade?
- a. Rwanda
 - b. Sudan
 - c. Somalia
 - d. all of the above

Answer: D

9. Which measure uses a common set of international prices for all goods and services produced?
- a. purchasing power parity income levels
 - b. GNP price deflators
 - c. foreign exchange rate conversions to U.S. dollars
 - d. the exchange rate

Answer: A

10. The number of units of developing country currency required to purchase a basket of goods and services in a developing country that costs one dollar in the U.S. is given by
- a. GNP price deflator.
 - b. Human Development Index ranking.
 - c. purchasing power parity.
 - d. the exchange rate.

Answer: C

11. About how many people lack access to basic sanitation?
- a. 20 million
 - b. 200 million
 - c. 500 million
 - d. 1 billion
 - e. 2 billion

Answer: E

12. About how many people lack access to safe water?
- a. 20 million
 - b. 200 million
 - c. 500 million
 - d. 1 billion
 - e. 2 billion

Answer: D

13. About how many malnourished children under age five are there in the developing world?
- a. 20 million
 - b. 150 million
 - c. 500 million
 - d. 1 billion
 - e. 2 billion

Answer: B

14. Neutral technological progress occurs when
- higher output levels are achieved with the same quantity and combinations of factor inputs.
 - higher output levels are achieved by more capital intensive methods.
 - higher output levels are achieved by more labor intensive methods.
 - higher output levels are achieved.

Answer: A

15. Conditions of today's developed countries at the start of their industrialization differ from conditions in the developing world in that
- population growth rates were higher.
 - more advanced technology was available.
 - there were more opportunities for development assistance.
 - none of the above.

Answer: D

16. Most successful examples of modern economic growth have occurred in a country with
- a temperate-zone climate.
 - a market economy.
 - exports of manufactured goods.
 - all of the above.

Answer: D

17. Which of the following is not an indicator that is used by the World Bank in measuring the level of economic development?
- life expectancy at birth.
 - adult literacy rate.
 - infant mortality rate.
 - all of the above are not used by the World Bank.

Answer: D

18. The dependency burden is
- a measure of the degree to which the less developed countries are dependent on the rich industrial countries.
 - the average number of children that a woman gives birth to during her lifetime.
 - the number of babies born per 1000 persons.
 - the percent of the population that is below 15 and above 65 years of age.

Answer: D

19. How many people still live on less than the equivalent of \$1.25 per day (new definition of "extreme poverty")?
- 100 million.
 - 500 million.
 - 1.4 billion.
 - 2.2 billion.

Answer: C

20. Which of the following is not an indicator that is used to compute the Human Development Index?
- a. life expectancy at birth.
 - b. real GDP per capita.
 - c. infant mortality rate.
 - d. adult literacy rate.

Answer: C

21. The combined GDP of developing countries constitutes approximately
- a. 5 percent of global GDP.
 - b. 20 percent of global GDP.
 - c. 30 percent of global GDP.
 - d. 40 percent of global GDP.

Answer: D

22. Developing countries are starting to converge with developed countries in the long run in what respect?
- a. Growth rate
 - b. Income inequality
 - c. Population
 - d. Per capita income

Answer: D

23. Which region in the world has the lowest GNI per capita based on the World Bank Atlas method?
- a. Sub-Saharan Africa
 - b. East Asia/Pacific
 - c. South Asia
 - d. Latin America/The Caribbean

Answer: C