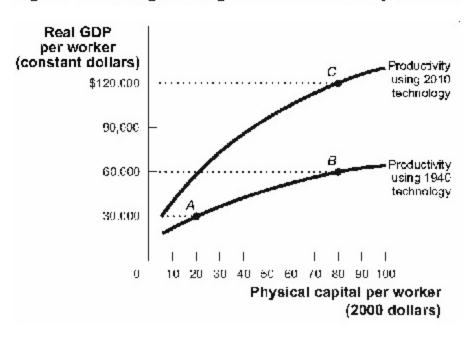
Name:	Date:
1.	An increase in the amount of physical capital per worker, while technological progress A) makes the aggregate production function steeper; changes the slope of the aggregate production function B) makes the aggregate production function steeper; makes the aggregate production flatter C) moves the economy along the aggregate production function; shifts up the aggregate production function D) shifts up the aggregate production function; moves the economy along the aggregate production function
2.	 Which of the following accurately describes what is happening along a typical aggregate production function? A) At some point, increasing the amount of physical capital per worker will reduce productivity. B) Increases in physical capital per worker will always bring about an increase in productivity that is worth the cost of the additional physical capital. C) Due to diminishing returns, increasing the amount of physical capital per worker will eventually bring smaller and smaller increases in productivity. D) Adding workers results in real GDP per worker rising at an increasing rate throughout the function.
3.	The aggregate production function does NOT depend on which of the following? A) the quantity of physical capital per worker B) human capital per worker C) the state of technology D) the amount of natural resources
4.	The sources of funds for investment spending are: A) savings by households, government, and foreigners. B) taxes and transfer payments. C) always equal to U.S. spending on imports. D) directed to their most productive uses by the U.S. government.
5.	Technological progress is advanced through: A) research and development. B) government regulation. C) consumption. D) infrastructure.

- 6. Long-run economic growth is:
 - A) higher in countries with a weak rule of law and excessive government intervention.
 - B) lower in countries with a strong government and independent judiciary.
 - c) lower in countries whose courts enforce property rights and whose government protects its citizens.
 - D) higher in countries with a strong rule of law and political stability.
- 7. A country's growth rate depends very highly on how it has invested in its physical capital. Generally, countries that have:
 - A) used foreign direct investment as a source of their capital have exhibited the highest growth rate.
 - B) used domestic saving as a source of their investment on physical capital have exhibited the highest growth rate.
 - C) used foreign portfolio investment as a source of their capital have exhibited the highest growth rate.
 - used contracted globalization as a source of their capital have exhibited the highest growth rate.
- 8. When the government invests resources in a nation's educational system, the government is said to be investing in:
 - A) private property.
 - B) human capital.
 - C) political stability.
 - D) infrastructure.
- 9. The East Asian countries have exhibited tremendous economic growth during the last 40 years because of all of the following EXCEPT:
 - A) a significant increase in physical capital per worker made possible by very high rate of saving.
 - B) a significant increase in human capital made possible by very good basic education.
 - C) a substantial achievement in technological progress.
 - intervening governments with lots of regulations.
- Economic growth will likely involve:
 - A) a reduction in investment.
 - B) a decrease in the capital stock.
 - C) higher saving.
 - D) lower saving.

Use the following to answer questions 11-12:

Figure: Technological Progress and Productivity Growth



- 11. (Figure: Technological Progress and Productivity Growth) If there is a significant increase in human capital per worker (all other factors remaining unchanged), it would be best indicated by a move from:
 - A) A to B.
 - B) B o A
 - C) C to B.
 - D) B to C.
- 12. (Figure: Technological Progress and Productivity Growth) If there is an increase in physical capital per worker (all other factors remaining unchanged), it would be best indicated by a move from:
 - A) A to B.
 - B) $B ext{ to } A$
 - C) C to B.
 - D) B to C.
- 13. Economies with higher growth rates tend to be those that increase their:
 - A) government regulation.
 - B) human capital.
 - C) consumption.
 - D) resources.

- 14. Which of the following institutions is important in channeling savings into investment?
 - A) schools
 - B) religious institutions
 - C) banks
 - D) the federal government
- 15. Among the factors that are important for economic growth are:
 - A) property rights.
 - B) growth accounting.
 - C) natural resources.
 - D) convergence.
- 16. Ireland's recent economic growth and improving living standard are due primarily to:
 - A) its refusal to join the European Union and abandon its own currency for the euro.
 - B) the capture and imprisonment of Sinn Fein leader Gerry Adams.
 - C) the large number of immigrants to the nation from Eastern Europe.
 - an excellent physical and human infrastructure, including a good education system, airports, telecommunications, and shipping facilities.
- 17. Which of the following is an important measure of economic growth over time?
 - A) inflation
 - B) increases in real per capita GDP
 - C) decline in real interest rates
 - D) increases in the available labor supply
- 18. The standard of living in a country can be best measured by:
 - A) nominal GDP per capita.
 - B) real GDP per capita.
 - C) the productivity growth rate.
 - D) the business cycles.
- 19. Suppose a panel of economists predicts that a nation's real GDP per capita will double in approximately 20 years. Based upon the rule of 70, what must be the predicted annual growth rate of real GDP per capita?
 - A) 140%
 - B) 3.5%
 - C) 2.85%
 - D) 14%

- 20. Suppose a panel of economists predicts that a nation's real GDP per capita will have an average annual growth rate of 2%. Based upon the rule of 70, how many years will it take for this nation's real GDP per capita to double?
 - A) 35
 - B) 70
 - C) 140
 - D) 20
- 21. The rule of 70 indicates that a 6% annual increase in the potential level of real GDP would lead to the potential output doubling in ______ years.
 - A) 6
 - B) 12
 - C) 24
 - D) 30
- 22. Productivity declines when:
 - A) the number of hours worked exceeds the number of workers.
 - B) population growth exceeds real GDP growth.
 - C) the ratio of adult civilians employed outside the home rises.
 - D) real GDP growth exceeds the population growth.
- 23. Over the course of the twentieth century, the real GDP per capita in the United States rose mostly as a result of:
 - A) rising population.
 - B) rising employment.
 - C) rising productivity.
 - D) reduced vacation time.
- 24. The term human capital describes:
 - A) improvement made possible by better machines and the equipment available.
 - B) improvement in the technology available to the work force.
 - improvement in a worker's skills made possible by education, training and knowledge.
 - improvement in the robotics technology that can substitute for a human worker.
- 25. Which of the following will NOT increase the productivity of labor?
 - A) technological improvements
 - B) an increase in the capital stock
 - C) improvements in education
 - D) an increase in the size of the labor force

- 26. Rising high school graduation rates are an example of an increase in:
 - A) technological progress.
 - B) human capital.
 - C) population stock.
 - D) fertility rates.
- 27. Physical capital includes:
 - A) the education or knowledge a worker has in his or her physical being.
 - B) the tools a worker has to work with.
 - C) the money available for the worker to use.
 - D) shares of stock.
- 28. To acquire human capital a person would:
 - A) save to buy a printing press.
 - B) purchase a printing press rather than use his or her money on consumption.
 - C) learn to use a printing press.
 - sell the books that the printing press produces.
- 29. Diminishing returns to physical capital means that as more and more physical capital is combined with a fixed amount of human capital and a fixed technology, eventually:
 - A) aggregate output or real GDP declines.
 - B) aggregate output or real GDP grows.
 - C) additions to aggregate output or real GDP decline.
 - D) additions to aggregate output or real GDP increase.
- 30. Growth accounting estimates the:
 - A) increase in the population rate over time.
 - B) increase in the inflation rate over time.
 - contribution of each major factor in the aggregate production function to economic growth.
 - D) contribution of the technology factor in the aggregate production function to economic growth.
- 31. Natural resources are:
 - A) more important determinants of productivity today than ever before.
 - B) the reason behind the fast development of countries like Japan.
 - C) the reason behind the slow development of countries like Nigeria.
 - less reliable indicators of productivity today than they were a century ago.