

ECONOMICS GRADE 11 QUESTIONS Manual

Economics Grade 11 Questions

Understanding the fundamentals of economics is essential for students at the Grade 11 level. As they embark on their journey into economic theory and application, students encounter a variety of questions designed to test their comprehension, analytical skills, and ability to apply concepts to real-world scenarios. This article aims to provide a comprehensive overview of common economics Grade 11 questions, offering insights into their structure, key topics, and effective strategies for answering them.

Common Types of Economics Grade 11 Questions

Economics questions at the Grade 11 level typically fall into several categories, each assessing different skills and knowledge areas. Recognizing these types can help students prepare more effectively.

1. Definition and Explanation Questions

These questions require students to define key economic terms and explain concepts in their own words.

- Example: "Define scarcity and explain its importance in economics."
- Tip: Focus on clarity and precision; relate definitions to real-world examples when possible.

2. Short Answer Questions

These questions ask for concise responses that demonstrate understanding of specific topics.

- Example: "What is the role of the government in a mixed economy?"
- Tip: Be direct and to the point; support your answers with brief explanations or examples.

3. Diagram-Based Questions

Students are often asked to interpret or draw diagrams that illustrate economic concepts.

- Example: "Draw and explain a supply and demand curve showing equilibrium."
- Tip: Practice sketching diagrams accurately and labeling all parts clearly.

4. Application and Scenario Questions

These questions present a scenario and ask students to analyze or solve based on economic principles.

- Example: "If a government imposes a price ceiling below the market equilibrium, what will be the likely effects?"
- Tip: Identify relevant concepts (e.g., shortages, black markets) and apply them logically.

5. Essay and Discussion Questions

Longer questions requiring detailed explanations, arguments, or evaluations.

- Example: "Discuss the effects of inflation on consumers and producers."
- Tip: Structure your answer with an introduction, main points with examples, and a conclusion.

Key Topics Covered in Grade 11 Economics Questions

To effectively answer economics questions, students should be familiar with core topics frequently tested at the Grade 11 level.

1. Basic Economic Concepts

Understanding foundational ideas is crucial.

- Scarcity and choice
- Opportunity cost
- Factors of production
- Types of resources (land, labor, capital, entrepreneurship)

2. Economic Systems

Different arrangements for resource allocation.

- Traditional economy
- Command economy
- Market economy
- Mixed economy

3. Microeconomics Principles

Focuses on individual markets and players.

- Demand and supply analysis
- Price elasticity
- Consumer behavior
- Production and costs

4. Macroeconomics Concepts

Deals with broader economic indicators and policies.

- Gross Domestic Product (GDP)
- Inflation and deflation
- Unemployment types and causes
- Fiscal and monetary policy

5. Market Structures

Different types of market organizations.

- Perfect competition
- Monopoly
- Oligopoly
- Monopolistic competition

6. Government Intervention

Role of policies and regulations.

- Price controls (ceilings and floors)

- Taxation and subsidies
- Public goods and externalities

7. International Economics

Trade and global markets.

- Balance of payments
- Exchange rates
- Trade barriers
- Globalization impacts

Strategies for Answering Economics Grade 11 Questions Effectively

Proper strategy enhances exam performance. Here are tips tailored to different question types.

1. Understand the Question

- Read carefully to identify what is being asked.
- Highlight keywords like "explain," "analyze," "describe," or "evaluate."

2. Plan Your Answer

- For longer questions, outline main points before writing.
- Ensure your answer addresses all parts of the question.

3. Use Diagrams Judiciously

- Draw neat, labeled diagrams where required.
- Refer to diagrams in your explanation to strengthen your answer.

4. Support Your Points

- Use examples to illustrate concepts.
- Reference current economic issues where appropriate.

5. Manage Your Time

- Allocate time based on question marks.
- Leave time to review answers for clarity and completeness.

6. Review and Edit

- Check for clarity, spelling, and correctness.
- Make sure your answers are concise and relevant.

Sample Economics Grade 11 Questions with Model Answers

Providing practice questions and model answers can enhance understanding.

Question 1: Define scarcity and explain its significance in economics.

Model Answer: Scarcity refers to the fundamental economic problem of having limited resources to meet unlimited human wants. It is significant because it forces individuals and societies to make choices about how to allocate resources efficiently, prioritizing some needs over others. Scarcity leads to the need for economic decision-making, resource management, and the study of how societies optimize resource use.

Question 2: Draw a demand and supply diagram showing market equilibrium. Explain what causes shifts in demand and supply curves.

Model Answer: [Insert a neatly labeled diagram with demand and supply curves intersecting at equilibrium price and quantity.]

Shifts in demand can be caused by factors such as changes in consumer income, preferences, prices of related goods, or expectations about future prices. An increase in demand shifts the demand curve rightward, raising both equilibrium price and quantity. Conversely, a decrease shifts it leftward.

Shifts in supply result from changes in production costs, technology, taxes, or subsidies. An increase in supply shifts the supply curve rightward, lowering the equilibrium price and increasing quantity. A decrease shifts it leftward, resulting in higher prices and lower quantities.

Question 3: Discuss the impact of inflation on consumers and producers.

Model Answer: Inflation erodes the purchasing power of consumers, making goods and services more expensive over time, which can reduce their standard of living if wages do not increase proportionally. For producers, inflation can increase costs of inputs and wages, potentially squeezing profit margins. However, moderate inflation may encourage spending and investment. Unpredictable inflation can create economic uncertainty, deterring long-term planning and savings.

Conclusion

Mastering economics Grade 11 questions requires understanding core concepts, practicing diagram interpretation, and applying analytical skills to scenarios. By familiarizing oneself with question formats and key topics, students can approach their exams with confidence. Remember, consistent practice, clear explanations, and strategic answering are the keys to excelling in economics at this level. Whether defining terms, analyzing graphs, or discussing complex policies, a structured approach will help students demonstrate their understanding and achieve academic success.

Economics Grade 11 Questions: An In-Depth Analysis of Learning Challenges and Key Concepts

Understanding the intricacies of Economics Grade 11 questions is crucial for students, educators, and curriculum developers aiming to ensure comprehensive mastery of foundational economic principles. As the first significant step into the world of economics at the secondary education level, Grade 11 assessments serve as both a benchmark of student understanding and a tool for fostering critical thinking about economic systems, policies, and principles. This article delves into the common characteristics of Grade 11 questions, their pedagogical significance, the core topics frequently assessed, and offers insights into effective strategies for mastering these questions.

Overview of Economics Grade 11 Curriculum and Question Types

The Grade 11 economics curriculum typically introduces students to fundamental concepts such as microeconomics and macroeconomics, economic systems, scarcity, opportunity cost, demand and supply, market equilibrium, and government intervention. The questions designed to evaluate these topics aim to test not only rote memorization but also analytical skills, practical application, and critical thinking.

Common Question Formats

Understanding the typical formats of Grade 11 questions is essential for effective preparation:

- Multiple Choice Questions (MCQs): Assess basic knowledge, definitions, and quick application.
- Short Answer Questions: Require concise explanations, definitions, or calculations.
- Problem-Solving/Calculation Questions: Involve economic formulas, graphs, and numerical

analysis.

- Essay/Long-Answer Questions: Evaluate understanding of concepts, ability to synthesize information, and critical analysis.

Pedagogical Objectives

Questions are designed to:

- Reinforce foundational knowledge.
- Develop analytical and problem-solving skills.
- Encourage application of theoretical concepts to real-world scenarios.
- Promote understanding of economic policies and their implications.

Key Topics and Commonly Asked Questions in Grade 11 Economics

To thoroughly grasp what Grade 11 questions often cover, it is helpful to categorize topics and examine the types of questions related to each.

1. Basic Economic Concepts

Topics Covered: Scarcity, choice, opportunity cost, factors of production, needs and wants.

Sample Questions:

- Define scarcity and explain its significance in economics.
- Differentiate between needs and wants, providing examples.
- Calculate opportunity cost in a given scenario involving resource allocation.

Analysis: These questions gauge students' understanding of core principles that underpin all economic analysis. They often involve straightforward definitions but can also include application-based problems requiring students to identify opportunity costs in real-life situations.

2. Demand and Supply

Topics Covered: Law of demand and supply, determinants, movement along and shifts in curves, equilibrium price and quantity.

Sample Questions:

- Draw and explain the demand and supply curves for a product experiencing a price increase.
- How do changes in consumer income affect the demand for normal and inferior goods?
- Calculate the new equilibrium price when demand increases while supply remains constant.

Analysis: Graph-based questions are prevalent, requiring students to interpret and manipulate diagrams. Numerical questions test understanding of shifts and elasticity concepts.

3. Market Equilibrium and Price Mechanism

Topics Covered: Equilibrium, disequilibrium, price controls, shortages, surpluses.

Sample Questions:

- Describe the effects of a price ceiling set below the equilibrium price.
- Explain how market forces restore equilibrium after a sudden increase in demand.

Analysis: These questions assess comprehension of dynamic market processes and the role of government interventions.

4. Consumer and Producer Behavior

Topics Covered: Utility maximization, production costs, profit maximization.

Sample Questions:

- Explain the concept of utility and how it influences consumer choices.
- Calculate producer surplus given certain market conditions.

Analysis: Focuses on decision-making processes and how individuals and firms respond to market signals.

5. National Income and Economic Performance

Topics Covered: GDP, GNP, inflation, unemployment.

Sample Questions:

- Define GDP and discuss its limitations as an indicator of economic well-being.

- Explain the difference between cyclical and structural unemployment.

Analysis: These questions evaluate understanding of macroeconomic indicators and their implications for economic health.

6. Money and Banking

Topics Covered: Functions of money, types of banks, monetary policy.

Sample Questions:

- Describe the functions of money and distinguish between commodity money and fiat money.
- How does an expansionary monetary policy influence the economy?

Analysis: Emphasizes understanding of financial systems and policy tools.

7. Government Intervention and Fiscal Policy

Topics Covered: Taxes, subsidies, public goods, market failures.

Sample Questions:

- Explain the rationale for government intervention in the case of externalities.
- Discuss the impact of increased taxation on economic growth.

Analysis: These questions encourage students to analyze policy measures and their broader effects.

Deep Dive into Challenging Areas and Critical Thinking

While many questions are straightforward, some pose significant challenges requiring higher-order thinking.

Analyzing Graphs and Diagrams

Economics heavily relies on graphical analysis. Students must interpret shifts, identify equilibrium points, and predict outcomes based on diagrams. For example:

- Given a supply and demand graph, identify the effect of a subsidy.
- Explain the impact of a price floor on market equilibrium.

Strategies: Practice drawing and interpreting various diagrams, understanding the assumptions behind them, and connecting them to real-world scenarios.

Applying Concepts to Real-Life Scenarios

Questions often present hypothetical or current events, asking students to analyze using economic principles. For instance:

- How would a sudden increase in minimum wage affect the labor market?
- Evaluate the effects of a government subsidy on a specific industry.

Strategies: Stay updated on current economic news, practice case studies, and develop the ability to connect theory with practice.

Critical Evaluation of Policies

Some questions require students to critique or defend economic policies, weighing benefits against drawbacks. For example:

- Assess the effectiveness of price controls in preventing inflation.
- Discuss the potential impacts of a universal basic income.

Strategies: Develop balanced arguments, consider multiple perspectives, and support opinions with evidence.

Effective Strategies for Mastering Economics Grade 11 Questions

Mastery of Grade 11 economics questions hinges on both conceptual understanding and exam technique.

- Build a Strong Conceptual Foundation
- Regularly review definitions and key principles.
- Understand the rationale behind economic models, not just the models themselves.

- Practice Diagram Interpretation and Drawing

- Dedicate time to drawing accurate and neat diagrams.
- Practice explaining diagrams verbally and in writing.

- Engage with Past Papers and Sample Questions

- Simulate exam conditions to improve time management.
- Analyze mistakes and seek clarifications.

- Develop Critical Thinking Skills

- Question assumptions behind policies.
- Consider alternative outcomes and scenarios.

- Use Real-World Examples

- Incorporate current economic events into answers.
- Use examples to illustrate theoretical points.

Conclusion

The landscape of Economics Grade 11 questions is diverse, encompassing theoretical definitions, graphical analysis, numerical calculations, and critical evaluations. Success in answering these questions requires a solid grasp of fundamental concepts, the ability to interpret and analyze diagrams, and proficiency in applying knowledge to real-world contexts. As students progress through their studies, developing these skills not only prepares them for examinations but also fosters a deeper understanding of how economic principles shape the world around them.

By systematically studying core topics, practicing past questions, and honing analytical skills, learners can confidently navigate the challenges posed by Grade 11 economics assessments. For educators and curriculum designers, understanding these question patterns informs targeted instruction aimed at cultivating well-rounded economic thinkers capable of engaging with complex issues critically and effectively.

Question What is the law of demand in economics? The law of demand states that, all other factors being equal, as the price of a good or service decreases, the quantity demanded by consumers increases, and vice versa. What are the main causes of shifts in the demand curve? Shifts in the demand curve are caused by factors such as changes in consumer income, preferences, prices of related goods, expectations about future prices, and demographic changes. What is opportunity cost in economics? Opportunity cost is the value of the next best alternative foregone when making a decision, representing the benefits that could have been gained from choosing that alternative. How does price elasticity of demand affect consumer behavior? Price elasticity of demand measures how much the quantity demanded responds to price changes. If demand is elastic, consumers are highly responsive to price changes; if inelastic, demand is less sensitive, influencing pricing strategies. What is the difference between microeconomics and macroeconomics? Microeconomics focuses on individual agents like households and firms, analyzing market mechanisms and prices, while macroeconomics studies the economy as a whole, including issues like inflation, unemployment, and economic growth.

Related keywords: economics questions, grade 11 economics, economics exam, microeconomics, macroeconomics, economics worksheet, economic concepts, grade 11 assignments, economic theory, economic principles

DEPARTMENT OF ECONOMICS ECONOMICS BY

Department of Economics Economics By is a comprehensive academic discipline dedicated to understanding how societies allocate scarce resources to meet unlimited wants and needs. As a fundamental pillar of social sciences, economics explores the mechanisms behind production, distribution, and consumption of goods and services. The department of economics plays a vital role in shaping policies, fostering research, and developing analytical tools that help address complex economic challenges in both local and global contexts.

In this article, we delve into the multifaceted world of the department of economics, examining its core functions, academic offerings, research areas, career prospects, and its significance in today's interconnected world.

Understanding the Department of Economics

The department of economics is an academic division within universities and colleges that focuses on teaching and research related to economic theories, models, and applications. It aims to equip students with critical thinking skills, quantitative analysis capabilities, and an understanding of

economic principles that influence decision-making at individual, corporate, and governmental levels.

Core Objectives of the Department

- To provide a solid foundation in economic theories and principles
- To develop analytical and quantitative skills for economic analysis
- To foster research and innovation in economic thought
- To prepare students for careers in academia, government, finance, and industry
- To contribute to policy development and societal well-being

Key Components of the Department

- **Undergraduate Programs:** Bachelor's degrees in Economics, often combined with other disciplines
- **Graduate Programs:** Master's and Ph.D. programs focusing on advanced research and specialization
- **Research Centers:** Facilities dedicated to applied research, policy analysis, and economic modeling
- **Faculty:** Professors, researchers, and industry experts who contribute to teaching and scholarly work

Academic Offerings and Specializations

The department of economics offers a range of academic programs designed to cater to diverse interests and career goals. These programs often include core courses, electives, and specialization tracks.

Undergraduate Programs

- Bachelor of Arts (BA) or Bachelor of Science (BS) in Economics
- Combined degrees (e.g., Economics and Political Science, Economics and Business)
- Focus on foundational economic theories, mathematics, and statistics

Graduate Programs

- Master of Economics (ME) or Master of Business Economics

- Ph.D. in Economics for those interested in academic or high-level research careers
- Emphasis on econometrics, microeconomic and macroeconomic theory, and policy analysis

Specializations and Research Areas

- Microeconomics
- Macroeconomics
- Development Economics
- International Economics
- Environmental Economics
- Behavioral Economics
- Public Economics
- Financial Economics
- Health Economics

Research and Impact of the Department of Economics

Research is a cornerstone of the department of economics. Faculty and students often collaborate on projects that influence policy and improve understanding of economic phenomena.

Key Research Areas

- **Economic Development:** Strategies for improving living standards and reducing poverty
- **Public Policy:** Taxation, government spending, and social welfare programs
- **Financial Markets:** Market efficiency, banking stability, and investment analysis
- **Environmental Economics:** Sustainable development and resource management
- **Labor Economics:** Employment, wages, and labor market policies

Impact on Society and Policy

- Informing government policies to foster economic stability and growth
- Providing insights into global trade and financial systems
- Addressing pressing issues such as inequality, climate change, and economic crises
- Supporting development initiatives through empirical research

Career Opportunities for Economics Graduates

Graduates from the department of economics are highly sought after in various sectors due to their

analytical skills and understanding of economic systems.

Potential Career Paths

- Economist in government agencies or international organizations
- Financial analyst or investment banker
- Policy advisor or consultant
- Research analyst in think tanks and research institutions
- Academic researcher or university professor
- Data analyst or quantitative analyst in tech firms
- Entrepreneur or business strategist

Skills Developed

- Quantitative and statistical analysis
- Critical thinking and problem-solving
- Data interpretation and economic modeling
- Policy analysis and evaluation
- Effective communication of complex ideas

The Significance of the Department of Economics in Today's World

In an era characterized by rapid technological advancements, globalization, and complex economic challenges, the department of economics holds immense importance.

Addressing Global Challenges

- Climate change and environmental sustainability
- Economic inequality and social justice
- Financial stability and crisis prevention
- Technological disruptions and workforce adaptation

Fostering Innovation and Policy Development

- Utilizing big data and machine learning for economic forecasting
- Designing effective fiscal and monetary policies
- Promoting sustainable economic growth

Enhancing Decision-Making

- Providing governments and businesses with evidence-based insights
- Supporting informed policy-making to improve societal welfare

Conclusion

The department of economics, often described as "economics by," is a vital academic field that combines theoretical knowledge with practical application. Its diverse programs, rigorous research, and societal impact make it an essential component of higher education institutions worldwide. Whether students seek careers in policy, finance, academia, or industry, a solid foundation in economics opens doors to influential and rewarding opportunities. As the world faces ongoing economic uncertainties and transformations, the role of the department of economics remains more relevant than ever, guiding informed decision-making and fostering sustainable development for future generations.

Department of Economics

Introduction: The Significance of a Robust Economics Department

In the landscape of higher education, the Department of Economics stands as a cornerstone for cultivating analytical thinkers, policy advisors, and innovative researchers. Renowned for its comprehensive curriculum, distinguished faculty, and research output, an economics department not only shapes students' understanding of markets and human behavior but also influences societal and governmental policies globally. As an expert review, this article explores the critical elements that define a top-tier economics department, evaluates its core strengths, and highlights the transformative role it plays in academic and real-world settings.

Core Components of an Exemplary Economics Department

An effective economics department encompasses several fundamental components that together create an environment conducive to academic excellence, research innovation, and student development. These include faculty expertise, curriculum design, research facilities, industry collaboration, and student support services.

Faculty Expertise and Leadership

At the heart of any department lies its faculty. An outstanding economics department boasts a diverse faculty with expertise spanning various subfields such as macroeconomics, microeconomics, econometrics, development economics, behavioral economics, and international

economics.

Key attributes include:

- Academic Credentials: Faculty members often hold doctorates from leading institutions, ensuring a high level of scholarship and credibility.
- Research Contributions: Professors actively publish in top-tier journals, influence policy, and participate in renowned conferences.
- Diverse Perspectives: Inclusion of economists from different cultural, geographic, and theoretical backgrounds fosters a richer learning environment.
- Mentorship and Teaching Excellence: Faculty committed to mentoring students and fostering critical thinking are pivotal to student success.

Curriculum Design and Educational Approach

A well-structured curriculum balances foundational theories with contemporary issues, emphasizing both quantitative and qualitative skills.

Features of a comprehensive curriculum:

- Core Courses: Microeconomics, macroeconomics, statistics, and econometrics form the backbone.
- Electives and Specializations: Fields like environmental economics, health economics, financial economics, and behavioral economics allow students to tailor their studies.
- Practical Skills: Emphasis on data analysis, programming (e.g., R, Python), and policy evaluation.
- Interdisciplinary Integration: Courses that intersect with politics, sociology, and technology prepare students for complex real-world problems.

Innovative Teaching Methods:

- Case studies, simulations, and experiential learning.
- Use of online platforms and digital resources.
- Collaborative projects with industry and government agencies.

Research and Innovation Infrastructure

The vitality of an economics department is reflected in its research output and infrastructure.

Essential elements include:

- Research Centers: Specialized institutes focusing on areas such as development studies, fiscal policy, or behavioral science.
- Data Facilities: Access to economic databases (e.g., World Bank, IMF, national statistics), labs, and computational resources.
- Funding and Grants: Active pursuit of research funding from governmental and private sources to foster innovative projects.
- Publication and Dissemination: Encouragement of faculty and students to publish findings, participate in conferences, and influence policy debates.

Impact and Global Recognition

A department's reputation is often gauged by its contribution to academia and society at large. Leading economics departments influence policy, contribute to economic modeling and forecasting, and produce influential research that shapes national and international strategies.

Research Output and Publications

High-quality research published in peer-reviewed journals advances economic theory and practice. Departments that consistently produce impactful publications tend to attract top students and faculty.

Notable indicators include:

- Number of publications in top-tier journals.
- Citations and academic influence.
- Interdisciplinary collaborations.

Alumni and Industry Connections

Strong industry networks and alumni success stories serve as testimonials to a department's quality.

Alumni roles include:

- Policy advisors at governmental agencies.
- Economists in international organizations like the IMF or World Bank.

- Researchers at think tanks and academia.
- Leaders in finance, consulting, and entrepreneurship.

Special Features of Leading Economics Departments

Some departments distinguish themselves through unique offerings and strategic initiatives.

Interdisciplinary Programs

Integrating economics with data science, political science, public health, or environmental studies prepares students for multifaceted challenges.

Global Engagement and Partnerships

Collaborations with international universities, research institutions, and governmental bodies foster cross-cultural exchanges and joint research initiatives.

Focus on Policy and Society

Departments emphasizing policy implications and societal impact train students to become change agents.

Activities include:

- Policy labs.
- Consulting projects.
- Public seminars and forums.

Emphasis on Sustainability and Ethics

Incorporating environmental and ethical considerations into economic analysis aligns with global priorities on sustainable development.

Choosing the Right Economics Department: What Prospective Students Should Consider

For students contemplating their academic future, understanding the strengths and focus areas of a department is crucial.

Key considerations:

- Faculty expertise and research interests.
- Curriculum flexibility and specialization options.
- Research opportunities and funding availability.
- Industry and internship partnerships.
- Graduate success rates and employment outcomes.
- International exposure and exchange programs.

Conclusion: The Transformative Power of a Strong Economics Department

In an era marked by rapid technological change, global interconnectedness, and complex economic challenges, a robust Department of Economics serves as a vital engine for knowledge creation and societal progress. Whether through pioneering research, shaping policy, or preparing future leaders, top-tier departments exert a profound influence that extends well beyond university walls.

Investing in an exceptional economics department is not merely about academic excellence; it is about fostering a deeper understanding of human behavior, societal dynamics, and sustainable development. As stakeholders—students, educators, policymakers, and society at large—recognize its significance, the department's role in shaping a better future becomes ever more essential.

In summary, a distinguished Department of Economics combines expert faculty, innovative curricula, extensive research infrastructure, and societal engagement to produce influential scholars and policymakers. Its impact resonates in the corridors of academia and the corridors of power, making it a pivotal element in addressing the economic challenges of today and tomorrow.

Question What is the primary focus of the Department of Economics? The Department of Economics primarily focuses on studying how individuals, businesses, and governments make choices regarding the allocation of resources, analyzing economic behavior, and understanding market dynamics. **Answer** How does the Department of Economics by university contribute to student career development? It provides students with analytical skills, economic theory knowledge, and practical experience through research and internships, preparing them for careers in finance, policy analysis, consulting, and academia. What are the key courses offered by the Department of Economics? Key courses typically include Microeconomics, Macroeconomics, Econometrics, Development Economics, International Economics, and Public Policy. How does the Department of Economics incorporate current economic trends into its curriculum? It updates its curriculum regularly to include topics like behavioral economics, digital currencies, global trade issues, and sustainability to ensure students are engaged with contemporary economic challenges. What research areas are prominent within the Department of Economics? Prominent research areas include behavioral economics, environmental economics, health economics, development economics, and monetary policy. How can students engage with the Department of Economics beyond coursework? Students can participate in research projects, internships, economics clubs, seminars, and conferences organized

by the department to enhance their practical understanding and network with professionals.

Related keywords: economics department, economics courses, economics faculty, economics research, economics programs, economics majors, economics degree, economics faculty list, economics research topics, economics university

Read the full article online: [Department of economics economics by](#)