ECONOMICS

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Synapse Global Institute comprises a team of accomplished young professionals who have excelled in diverse fields, including Certified Public Accountancy, Civil Engineering (Registered), and Supply Chain Management (Registered)

The Institution embodies the concept of a synapse, serving as a vital connection between educators and learners to enable seamless knowledge transfer

Bridging educators' expertise with learners' ambitions, it delivers accessible, transformative education tailored for today's interconnected world, shaping futures through innovation and excellence

PREFACE

Economics plays a vital role in shaping the decisions of individuals, businesses, and governments. Understanding the fundamental principles of economics is essential for making informed choices, improving resource allocation, and addressing pressing socio-economic challenges. This book is designed to provide students with a clear, practical, and comprehensive understanding of economic concepts, theories, and applications.

This textbook follows the **Certified Public Accountants (CPA) Reviewed Examination Syllabus KNQF Level 7 (June 2024)**, ensuring that students receive structured and exam-focused content that aligns with their curriculum. The book is tailored for students undertaking **Paper No. 4: Economics** and is developed to meet the academic and professional requirements of aspiring accountants, economists, and business leaders.

Key Features of this Book

- **Comprehensive Coverage**: Each topic is explored in-depth, covering microeconomics and macroeconomics with a focus on real-world applications.
- **Illustrative Examples**: Practical examples, particularly from **Kenyan and East African economies**, are included to help students relate economic theories to actual economic events.
- **Clear Structure**: The content is systematically arranged, with clear headings, subheadings, and step-by-step explanations to enhance readability and comprehension.
- **Review Questions**: At the end of each section, carefully crafted review questions help reinforce understanding and prepare students for exams.
- **Mathematical and Graphical Applications**: The book includes mathematical approaches to economic analysis and visually appealing graphs to aid conceptual understanding.

This book is not just intended for CPA students but also for professionals, policymakers, and anyone interested in understanding economics from both a theoretical and practical perspective. It bridges the gap between theory and real-world economic phenomena, equipping students with analytical skills to interpret market trends, evaluate economic policies, and make sound financial decisions.

I appreciate the contributions of **Synapse Global Institute** and all professionals who provided insights during the preparation of this book. It is my hope that this resource will serve as a valuable guide in your journey of mastering economics.

CPA Ronoh Benson Benhard
Synapse Global Institute
2025

Table of Contents

Preface III

Microeconomics 1

1.1 Introduction to Economics 1

1.1.1 Definition of Economics 3
1.1.2 Basic Economic Concepts 4
1.1.3 Scope of Economics: Micro and Macro Economics 5
1.1.4 Methodology of Economics: 6
1.1.5 Economic Systems: 8
1.1.6 Consumers' Sovereignty and Its Limitations 10

1.2 Demand, supply and determination of equilibrium 14

1.2.1 Demand Analysis 15
1.2.2 Supply analysis 59
1.2.3 Determination of Equilibrium 109
1.2.4 The Theory of Consumer Behaviour 136
1.2.5 The Theory of a Firm 168
1.2.6 The Theory of Costs 222
1.2.7 Market Structures: 239

Macroeconomics 266

2.1 National Income 266

2.1.1 Definition of National Income 266
2.1.2 Circular Flow of Income 269
2.1.3 Methods/Approaches to Measuring National Income 272
2.1.4 Concepts of National Income 275
2.1.5 Difficulties in Measuring National Income 279
2.1.6 Uses of Income Statistics 288
2.1.7 Analysis of Consumption, Saving, and Investment and Their Interaction in a Simple Economic Model 292
2.1.8 Mathematical Approach to the Determination of Equilibrium National Income 296
2.1.9 Inflationary and Deflationary Gaps 300
2.1.10 The Multiplier and Accelerator Concepts 303
2.1.11 Business Cycles / Cyclical Fluctuations 310

2.2 Economic growth, economic development and economic planning 318

2.2.1 The Differences Between Economic Growth and Economic Development 318
2.2.2 Actual and Potential Growth 328
2.2.3 The Benefits and Costs of Economic Growth 340
2.2.4 Determinants of Economic Development 347
2.2.5 Common Characteristics of Developing Countries 355
2.2.6 Obstacles to Economic Development 365
2.2.7 The Need for Development Planning 371

2.2.8 Short Term, Medium Term, and Long Term Planning Tools 380
2.2.9 Challenges to Economic Planning in Developing Countries 392
2.3 Money and Banking 403
2.3.1 Money 404
2.3.2 The Banking System 424
2.4 Inflation and Unemployment 469
2.4.1 Inflation 469
2.4.2 Unemployment 482
2.4.3 Agriculture and Industry 496
2.4.4 International Trade and Finance 522

MICROECONOMICS

1.1 INTRODUCTION TO ECONOMICS

LEARNING OUTCOMES

1.1 Introduction to Economics

- Understand the fundamental concepts of economics, including the study of how scarce resources are allocated to meet human wants.
- Identify the scope of economics as a social science, addressing how economic theories and practices are integrated into real-world decision-making.

1.1.1 Definition of Economics

- Define economics as the science of scarcity and choice.
- Explain the role of economics in understanding how individuals, businesses, and governments make decisions regarding resource allocation.
- Recognize the importance of decision-making in economics at the individual, business, and governmental levels.
- Understand the relationship between economics and global markets, including how local decisions can have international consequences.

1.1.2 Basic Economic Concepts

- **Economic Resources**: Understand the different factors of production, including land, labor, capital, and entrepreneurship.
- **Human Wants**: Distinguish between human needs and wants, and understand the impact of unlimited wants in an economy.
- **Scarcity and Choice**: Recognize the concept of scarcity, how it forces individuals and societies to make choices, and the concept of trade-offs.
- **Opportunity Cost**: Define opportunity cost as the value of the next best alternative that is foregone when making a choice.
- **Production Possibility Curves/Frontiers (PPC/PPF)**: Understand how the PPC illustrates the trade-offs between two goods, the concept of efficiency, and the impact of economic growth on the PPF.

1.1.3 Scope of Economics: Micro and Macro Economics

- **Microeconomics**: Understand the study of individual consumer and firm behavior, including market structures, pricing, and production decisions.
- **Macroeconomics**: Define macroeconomics as the study of the economy as a whole, focusing on national economic indicators such as GDP, inflation, and unemployment.
- Recognize the interdependence between microeconomic and macroeconomic factors and how decisions at the micro level influence broader economic outcomes.

1.1.4 Methodology of Economics

- **Positive Economics**: Understand positive economics as the objective study of economic phenomena and relationships, focusing on what is or what can be empirically tested.
- **Normative Economics**: Define normative economics as the study of economic issues based on value judgments, addressing what ought to be.
- **Scientific Methods in Economics**: Learn how economists use model building, hypothesis testing, and statistical analysis to understand economic behaviors.
- **Economics as a Social Science**: Recognize the role of economics as a social science in analyzing human behavior, with consideration for cultural, political, and psychological factors.

1.1.5 Economic Systems: Planned Economy, Free Market Economy, Mixed Economy

- **Planned Economy**: Define a planned economy where the government controls the allocation of resources, production, and distribution of goods and services.
- **Free Market Economy**: Understand the characteristics of a free market economy where decisions about production and consumption are driven by supply and demand with minimal government intervention.
- **Mixed Economy**: Recognize a mixed economy as a system that blends elements of both planned and free market economies, involving varying degrees of government intervention in the market.

1.1.6 Consumers' Sovereignty and Its Limitations

- **Consumer Sovereignty**: Understand the concept that consumers' preferences and spending decisions drive production in a market economy.
- **Limitations of Consumer Sovereignty**: Identify factors that limit consumer sovereignty, such as market power, advertising, government policies, income disparities, and information asymmetry.
- Discuss how monopolies, externalities, and social influences can affect consumer choices and undermine the ideal of consumer sovereignty.

1.1.1 DEFINITION OF ECONOMICS

Overview

Economics is a fundamental social science concerned with understanding how individuals, organizations, and nations manage and utilize scarce resources. It involves analyzing the choices made to allocate these resources to maximize their utility and meet various economic objectives.

Detailed Definition

Economics is defined as the science of scarcity and choice. It explores how individuals, businesses, and governments prioritize their needs and desires in the face of limited resources. By studying economics, we learn how decisions are made in various sectors of the economy, from small local businesses in East Africa to large multinational corporations and governments.

Application in Decision-Making

- **Individual Level:** At the individual level, economics might involve choosing between saving and spending, or between diverse types of investments.
- **Business Level:** For a business, economic principles guide decisions about what products to produce, how much to produce, and what pricing strategy to use.
- **Governmental Level:** On a governmental scale, economics influences policy decisions such as taxation, government spending, and regulatory measures.

Local and Global Integration

Economics is not just about isolated choices; it integrates local decisions into the global economic context. For example, a Kenyan coffee farmer's decision to expand production affects not only local markets but also international coffee prices and trade policies.

Key Economic Questions

Economics seeks to answer several fundamental questions:

- **What to produce?** Deciding which goods and services to produce and in what quantities.
- **How to produce?** Determining the best combination of resources to use in the production process.
- **For whom to produce?** Deciding who gets the products that are produced, based on various mechanisms like market prices, government allocations, or lottery systems.

Interdisciplinary Connections

The field of economics intersects with other disciplines such as politics, sociology, and geography, enriching its analysis and application:

- **Politics:** Economic policies are heavily influenced by political environments, especially in terms of regulatory and fiscal policies.
- **Sociology:** Economic decisions are impacted by societal norms and values, which dictate consumer behavior and spending patterns.
- **Geography:** Location and natural resources significantly influence economic decisions and development strategies.

Broadening the Scope

While microeconomics focuses on the decisions of individuals and businesses, macroeconomics looks at the bigger picture—the total output of a nation, the levels of unemployment and inflation, and the interrelations among different sectors of the economy. Both branches are vital for a full understanding of economic dynamics.

1.1.2 BASIC ECONOMIC CONCEPTS

Overview

Understanding the fundamental concepts of economics is essential for analyzing how societies utilize limited resources to satisfy unlimited wants. This section explores several critical concepts that form the foundation of economic theory: economic resources, human wants, scarcity and choice, opportunity cost, and production possibility curves/frontiers.

Economic Resources

Economic resources, or factors of production, are the inputs used to produce goods and services. These are categorized into:

- **Land:** Includes all natural resources from the earth or sea used in production, such as minerals, forests, and water.
- **Labor:** Represents human physical and mental effort used in the creation of goods and services.
- **Capital:** Refers to manufactured assets used in further production, including machinery, buildings, and tools.
- **Entrepreneurship:** Involves the skills and risk-taking ability of individuals who combine the other resources to start and manage businesses.

Human Wants

Human wants are the desires that individuals and societies have for goods and services that they believe will provide satisfaction or utility. Unlike needs, which are necessary for survival, wants are unlimited and vary across diverse cultures and individual preferences.

Scarcity and Choice

Scarcity arises because human wants to exceed the capacity of available resources to satisfy them. It is a fundamental economic problem that forces individuals and societies to make choices about how to allocate resources efficiently. Every choice involves selecting one option at the expense of another, leading to trade-offs.

Opportunity Cost

Opportunity cost is a key concept in economics that refers to the value of the best alternative that must be forgone when a choice is made. It quantifies the cost of not choosing the next best alternative. For example, if a government spends money on military upgrades rather than education, the opportunity cost is the improvement in education that could have occurred.

Production Possibility Curves/Frontiers

The Production Possibility Curve (PPC) or Production Possibility Frontier (PPF) is a graphical representation that shows the maximum possible output of two goods that can be produced with available resources and technology, assuming all resources are fully employed. It illustrates:

- **Efficiency:** Points on the curve represent efficient use of resources, where no more of one good can be produced without producing less of another.
- **Trade-offs and Opportunity Costs:** Moving along the curve shows the trade-offs between the two goods, highlighting the opportunity cost of reallocating resources.
- **Economic Growth and Shifting the Curve:** An outward shift in the PPC represents growth in an economy's capacity to produce, resulting from factors like technological advancements or increases in resources.

1.1.3 SCOPE OF ECONOMICS: MICRO AND MACRO ECONOMICS

Overview

Economics is divided into two major branches: microeconomics and macroeconomics. Each branch serves a distinct function and focuses on various aspects of economic activity, providing valuable insights into how markets operate and economies function at both small and large scales.

Microeconomics: Understanding the Small Scale

Microeconomics is the study of individual and business behavior in decision-making and the allocation of resources. It focuses on the interactions between individual buyers and sellers and the factors that influence their decisions. Microeconomics looks at how these behaviors affect market dynamics such as prices, quantities, and resource allocation in individual markets.

Key Aspects of Microeconomics Include:

- **Consumer Behavior:** Analyzing how individual preferences and spending decisions drive the demand for goods and services.
- **Production and Costs:** Understanding how businesses decide on the quantity of goods to produce, the resources needed, and the costs involved.
- **Market Structures:** Examining several types of market settings, from perfect competition to monopolies, and how they affect pricing and production.
- **Factor Markets:** Exploring how factors of production (labor, land, capital) are distributed and priced in the economy.

Macroeconomics: Looking at the Big Picture

Macroeconomics examines the aggregate outcomes of economic activities. It studies broad indicators such as GDP, national income, and inflation, and how they are influenced by government policies and international factors. Macroeconomics seeks to understand the causes of long-term economic growth and the short-term fluctuations that occur along the way.

Key Aspects of Macroeconomics Include:

- **National Income Accounting:** Measuring the overall economic performance of a country.
- **Economic Growth:** Studying what causes economies to increase their output over time and how to sustain this growth.
- **Inflation and Unemployment:** Analyzing the factors that affect overall price levels and employment in the economy.
- **Fiscal and Monetary Policies:** Understanding government and central bank policies aimed at regulating the economy's growth, stability, and health.

Interdependence Between Micro and Macro Economics

The interaction between micro and macroeconomics is significant. Decisions made at the microeconomic level (like consumers deciding to save more) impact macroeconomic outcomes (like total national savings and investment), which in turn influence microeconomic conditions (like business decisions to expand production).

1.1.4 METHODOLOGY OF ECONOMICS:

Overview

The methodology of economics encompasses the techniques and approaches economists use to analyze economic problems and propose solutions. This methodology combines elements of both empirical data

analysis and theoretical speculation, guided by frameworks that include positive and normative economics, scientific methods, and the broader perspective of economics as a social science.

Positive and Normative Economics

- **Positive Economics:** This branch focuses on describing and explaining economic phenomena as they are, not as they should be. It aims to establish factual statements about economic behaviors and relationships that are objectively testable. Positive economics addresses questions like "What is?" or "What are the effects of a specific policy?" It involves hypothesis testing, data collection, and statistical analysis to validate theories.
- **Normative Economics:** In contrast, normative economics involves value judgments and subjective preferences about what the economy should look like or what policy actions should be taken. It deals with questions of "What ought to be?" and "What are the best economic policies?" Normative economics is more prescriptive, relying on the application of values and ethical considerations to data and economic theories.

Scientific Methods in Economics

Economics employs scientific methods to develop, test, and refine theories about how economies function. These methods include:

- **Model Building:** Economists construct simplified models of economic phenomena that help to predict and explain real-world economic behaviors.
- **Hypothesis Testing:** Based on these models, economists formulate hypotheses and test them using empirical data.
- **Statistical Analysis:** By analyzing data through statistical techniques, economists attempt to validate or refute their hypotheses, striving to isolate cause-and-effect relationships within complex economic interactions.

Economics as a Social Science

While economics often uses the same methods as physical sciences (like experiments and quantitative analyses), it remains fundamentally a social science because it deals with human behaviors and their consequences. Economic theories must account for a variety of social factors and are often influenced by:

- **Cultural Variations:** Diverse cultural backgrounds can significantly impact economic decisions and outcomes.
- **Political Influences:** Government policies and political stability play crucial roles in shaping economic conditions.
- **Psychological Factors:** Human emotions and cognitive biases frequently affect individual and market decisions.

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