

Economics

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Preface

About

These notes review the Singapore-Cambridge GCE A-Level H1 Economics ([8843](#)) syllabus.

Candidates taking this subject sit for the H1 Economics Paper 1, which comprises of 2 case studies, each consisting of 2 to 3 pages of data presented in textual, numerical or graphical form. Each case study will present contemporary multifaceted economic issues or policies, which may be from one or more themes in the syllabus. The data for each case study will be followed by 7 to 8 part-questions, including sub-parts. These questions will require candidates to apply relevant economic concepts, theories and principles in analysing, synthesising and evaluating economic issues, perspectives or policies, with reference to the data provided. About 16 marks of each set of case study questions will be allocated to data response questions, and about 24 marks will be for higher-order questions.

Acknowledgements

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Part I.

The Central Economic Problem

1. Scarcity, Choice and Resource Allocation

1.1. Scarcity

Definition 1.1. *Scarcity* is the situation of limited resources in relation to unlimited wants.

Definition 1.2. *Resources* are the inputs used in the production of the things we want. The resources used in production are called **factors of production**.

The total quantity of all resources an economy has at any one point determines the maximum possible output that economy can produce. Resources are limited because the quantity of factors of production are always fixed at any given period of time.

Factors of production can broadly be classified into 4 types:

- **Capital**
 - Man-made factors used in the production of other goods and services.
 - Types
 - * Fixed capital – machinery and buildings
 - * Infrastructure AKA social overhead capital – roads & rail network, telecommunication network, air & sea ports, etc.
- **Entrepreneurship**
 - The factor of production that assumes the risk and faces the uncertainty of combining the other 3 resources and engaging in production.
- **Land**
 - Encompasses all the natural resources that are available from nature, and can be renewable or non-renewable. (e.g. minerals, trees, resources that can be harvested from oceans and even the climate that is favourable to grow certain crops in)
- **Labour**
 - Includes all the productive contributions made by the physical and mental human effort.
 - The quantity of labour available for an economy consists of all those who are willing and able to work.

Definition 1.3. *Goods* are defined as all things from which individuals derive satisfaction. *Economic goods* are scarce goods for which the quantity demanded exceeds the quantity supplied at zero price.

1. Scarcity, Choice and Resource Allocation

Definition 1.4. *Services* are tasks that are performed for someone else. (e.g. laundry, internet access, teaching)

1.2. Resource Allocation

In a world of scarcity, the society, as a whole, is limited by the amount of resources it has to produce the goods and services to satisfy all these wants. **Choices** are hence inevitable, and must be made in the allocation of resources between different uses.

Fundamental questions of resource allocation:

- **What** and **how much** to produce?
- **How** to produce?
- **For whom** to produce?

1.3. Opportunity Cost

Definition 1.5. The *opportunity cost* of any activity is the value of the next-best alternative forgone.

The scarcity of resources puts a limit on how much goods and services the economy can produce to satisfy wants and contribute to the people's standard of living. Every time we make a choice, we are trading off the use of that resource for one or more alternative uses. The extent of the trade off is represented by the opportunity cost.

1.4. Production Possibility Curve (PPC)

Definition 1.6. The *production possibility curve (PPC)* of the production possibility frontier (PPF) is a graph that shows the maximum possible output combinations that the economy can produce in a given period of time (e.g. a year).

The PPC is a boundary or frontier because it shows the maximum production possible. It separates the attainable combination of goods from the unattainable.

Assumptions

The relevant assumptions of the PPC model include:

- 2 goods
- Resources are fully and efficiently employed
- Within a given period of time, the quantity and quality of the resources remain fixed. Technology also remains constant.

Graphical Illustration

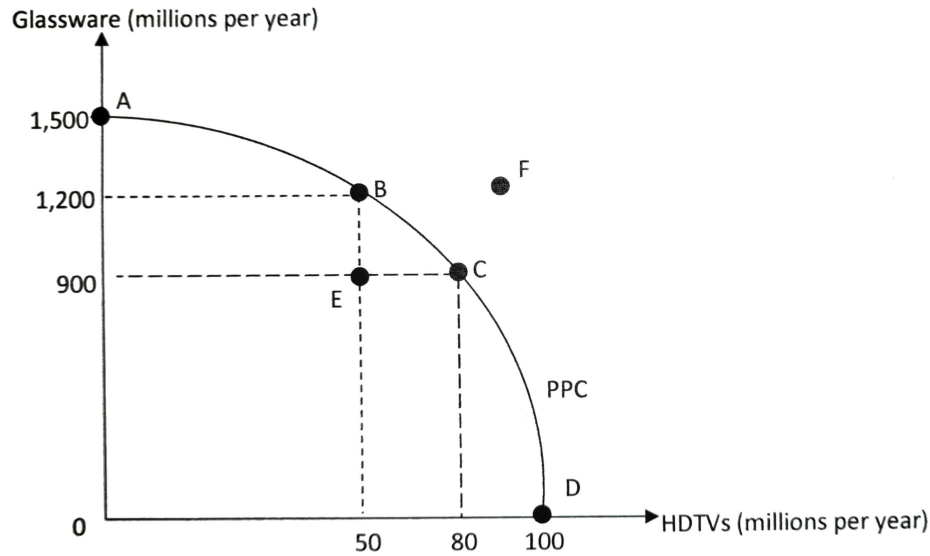


Figure 1.1.: Production Possibility Curve

Interpretation

Figure 1.1 shows the various maximum possible output combinations of glassware and HDTVs that can be produced with the available factors of production and production technology in a given time period of 1 year.

Represented by point A on the PPC, if all the resources were devoted solely to the production of glassware, the country produces 1500 million units of glassware (output of HDTVs = 0). Similarly, represented by point D, if all the resources were devoted solely to the production of HDTVs, the country produces 100 million units of HDTVs (output of glassware = 0).

In between points A and D are the maximum possible combinations of output when the resources are shared between the 2 industries. For example, at point B on the PPC, the country produces 1200 million units of glassware and 50 million units of HDTVs.

What the PPC tells us about scarcity, choice and opportunity cost

Scarcity

Scarcity is illustrated on the PPC as only combinations of goods within and on the PPC are attainable. Points beyond the PPC are unattainable due to limited resources.

- Points *on* the PPF (A, B, C, D)
 - Production can take place on the frontier with the economy producing the maximum possible output only when
 - * Resources are fully-utilised (fully-employed) and/or
 - * There is productive efficiency – using its given resources to produce the maximum possible output. It is hence impossible to increase the production of one good without reducing the production of the other.

1. Scarcity, Choice and Resource Allocation

- Points *within* the PPC (E)
 - Combinations within the frontier imply that resources are
 - * Under-utilised (under-employed/unemployed) and/or
 - * Misallocated and the economy is productively inefficient – at point E, output is not maximised. It is hence possible to increase the production of one good without reducing the production of the other (moving from point E to any point on the segment of the PPC bounded by points B and C).
- Points *outside* the PPC (F)
 - Combinations beyond the boundary of the PPC are unattainable with the economy's given resources and current state of technology.

Choice

Choice is illustrated via the choice between the different points on the PPC, depending on the economy's relative preference for the two goods.

Opportunity Cost

Opportunity cost is illustrated as the trade-off between the 2 goods and computed as the slope of the PPC.

The PPC is *downward sloping*, illustrating the fact that scarce resources have alternative uses and the trade-off as we move resources from one industry to the other.

The PPC is drawn *concave to the origin* (bowed outwards). The gradient of the PPC increases in steepness as we move along the horizontal axis, indicating that to produce an additional unit of HDTV, an increasing amount of glassware has to be sacrificed.

The *law of increasing relative cost/law of increasing opportunity cost* states that when society takes more resources and applies them to the production of any specific good, the opportunity cost increases for each additional unit produced.