





Introduction

As mentioned in chapter 23, the goal of macroeconomic policy focused on two main tasks:

1. Growth policy

Ensuring that the economy sustains a high **long-run** growth rate of potential GDP

2. Stabilization policy

Keeping actual GDP reasonably close to potential GDP in the short run, so that society is plagued by neither high unemployment nor high inflation





Note:

Those three pillars are obvious sources of **large disparities** between **rich nations**, which tend to have more stock of capital, better technology, and welleducated populations, and **poor nations**, which do not.









Definition 20 Aggregate demand

- It is the total amount that all **consumers**, **business firms**, **government** agencies, and **foreigners** spend on final goods and services, holding all other things constant.
- The aggregate demand curve is a **downward-sloping** curve.

Definition 21 Aggregate supply

- It is the quantity of goods and services that all the **nation's businesses** are **willing** to **produce** during a specified period of time, holding all other things constant.
- The aggregate supply curve is an **upward-sloping** curve.



Definition 22 Consumer expenditure "consumption" (C)

• It is the total amount spent by consumers on newly produced goods and services (excluding purchases of new homes, which are considered investment goods).

Definition 23 Investment spending (I)

• It is the sum of the expenditures of business firms on new plant and equipment and households on new homes. Financial "investments" are not included, nor are resales of existing physical assets.

Definition 24 Government purchases (G)

• It refers to the goods (such as airplanes and paper clips) and services (such as school teaching and police protection) purchased by all levels of government.

Definition 25 Net exports (X – IM)

• It refers to the difference between exports (X) and imports (IM). It indicates the **difference** between what we sell to foreigners and what we **buy** from them.





Definition 28 Transfer payments (TB)

• They are **sums** of **money** that the **government** gives certain individuals as outright **grants** rather than as **payments** for **services rendered**.

• Note: Examples of transfer payments are unemployment compensation and Social Security benefits.







Definition 29 The Circular Flow Model The circular flow of income and spending shows connections between different sectors of an economy. It shows flows of goods and services and factors of production between firms and households. The circular flow shows graphically how National Income or Gross Domestic Product is calculated Significance of circular flow in income It reflects structure of an economy. It shows interdependence among different sectors. It gives information about injections and leakages from flow of money. It helps in estimation of national income and related aggregates.



Households

- Households **demand** <u>consumer goods</u>, like: cars, computers, washers, etc.
- Households **provide** <u>labor</u> <u>resources</u> to business and own most of the resources of production.



Businesses

- Businesses **produce** and **supply** <u>goods</u> and <u>services</u>.
- Businesses **demand** <u>resources for production</u>: land, labor, capital, and entrepreneurs









Factor Markets

- They are markets where **business** acquire the factors of **production** (land, labor, capital..)
- Example, when you are looking for a job you are in the factor (labor) market.

Governments

- Central & Local Governments require resources to provide services
- To purchase these resources governments collect taxes.



Financial system

- Financial institutions are primary intermediaries between savers and investors (or lenders and borrowers).
- All **lending** and **borrowing** are channeled through **capital market**.

External Sector

- In the case of <u>imports</u>: money <u>flows to the rest of world</u>.
- In the case of <u>exports</u>: money <u>flows in from the rest of world</u>.



BA



Definition 30 Injections The amount of money that is added to the flow of income in the economy. These include: (i) Consumption; (ii) investment spending, (iii) government spending and (iv) export earnings. Definition 31 Leakage The amount of money which is withdrawn from the flow of income. These include: (i) savings, (ii) taxes by households and firms and (iii) import spending.















Definition 32 The Consumption Function

• It shows the relationship between total **consumer expenditures** and **total disposable income** in the economy, holding all other determinants of consumer spending constant.

Definition 33 The Marginal Propensity to Consume (MPC)

- It tells us how much additional spending will be induced by each dollar change in disposable income.
- On a graph, it appears as the **slope** of the consumption function.
- It is the **ratio** of the **change** in **consumption** relative to the **change** in **disposable income**.









Note:

1)A collapse of stock prices reduces consumers' wealth and thus lowers the consumption function

2) A stock market boom adds to consumers' wealth and thus

raises the consumption function

















No. of Street	
	1) The aggregate demand curve
	A) has a negative slope.
	B) has a positive slope.
	C) is vertical.
	D) is horizontal.
	Ans. (A)
	2) Aggregate demand is the relationship between the quantity of real GDP demanded and the
	A) price level
	B) money wage rate
	C) real wage rate
	D) nominal GDP demanded
	Ans. (A)
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9) Disposable income is equal to
A) consumption expenditure minus taxes plus transfer payments.
B) aggregate income minus taxes plus government expenditures on goods and services.
C) aggregate income minus taxes plus transfer payments.
D) aggregate income plus transfer payments.
D) aggregate income plus transfer payments.
Ans. (C)
10) The *MPC* is the fraction of
A) total disposable income that is consumed.
B) total disposable income that is not consumed.
D) a change in disposable income that is saved.

11) The *MPC* is equal to
A) Δ*C* / Δ*S*.
B) Δ*S* / Δ*C*.
C) Δ*C* / Δ*YD*.
D) Δ*S* / Δ*YD*.
Ans. (C)



Calculating MPC

Q) Based on the following table, calculate MPC in years 2006 & 2010.

Consumption and Income in a Hypothetical Economy (Amounts are in billions of dollars).

		Disposable Income,	
Year	Consumption (C)	DI	MPC
2005	2,700	3,200	-
2006	3,000	3,600	
2007	3,300	4,000	
2008	3,600	4,400	
2009	3,900	4,800	
2010	4,200	5,200	

Q) When disposable income equals \$800 billion, consumption expenditure equals \$600 billion, and when disposable income equals \$1,000 billion, consumption expenditure equals \$640 billion. What is the level of saving when disposable income is \$800 billion?

Ans. \$200 billion

S = disposable income (YD) - Consumption (C) = 800-600 = 200







True/False:

- Disposable income changes when either real GDP changes or net taxes change () Ans. True
- If tax rates don't change, real GDP is the only influence on disposable income, so consumption expenditure is a function of real GDP. ()

Ans. True

A tax increase decreases after-tax income and a tax reduction increases it ().

Ans.

