ECONOMICS

Chapter-6

Determination of National Income

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Ture No.





RECAP OF PREVIOUS LECTURE

1) National Income Accounting



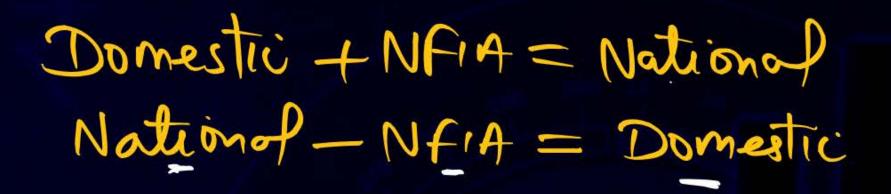


TOPICS TO BE COVERED

1) National Income Accounting









$$fc + NIT = mp$$
 $mp - NIT = fc$

$$GDP_{mp} - NIT = GDP_{mp}$$

$$GDP_{cc} + NIT = GDP_{mp}$$

$$NIT = IIT - Sub$$







#Q. Gross National Product at market prices is

$$GDP_{MP}$$
 + Net Factor Income from Abroad $GNP_{MP} = GDP_{MP} + NFIA$

- 2. GDP_{MP} Net Factor Income from Abroad
- 3. GDP_{MP} Depreciation
- 4. GDP_{MP} + Net Indirect Taxes



#Q. The basis of distinction between market price and factor cost is

$$\frac{mp}{=} fc + (nit)$$

- 1. net factor income from abroad
- 2. net indirect taxes (i.e., Indirect taxes Subsidies)
- net indirect taxes (i.e., Indirect taxes⊕Subsidies)
- depreciation (consumption of fixed capital)



#Q. From the following data calculate (a) Gross Domestic Product at Market price:

Items	₹ in Crores
GDP at FC	61,00
Net exports	(-) 50
Compensation of employees	3000
Rent	800
Interest	900
Profit	1,300
Net indirect taxes	300
Net domestic capital formation	800
Gross domestic capital formation	900
Factor income to abroad	80

SOLUTION



- (a) Gross Domestic Product at Market Price
 - = GDP at factor cost + Net Indirect taxes =₹ 6100
 - + ₹ 300
 - = 6400 Crores



National income is Sum total of all factor incomes earned by resident of a country during an accounting year.

Nationalincome = [NNPfc]



Domestic - NDP Fc



Who calculates national income in India?

Ministry of Statistics & Programme Implementation (MoSPI)

Central Statistics Office (CSO)

National Accounts Statistics (NAS)



- The performance of an economy depends on the output of goods and services produced by it, which is measured by National Income.
- According to the Central Statistical Organisation (CSO) 'National income is the sum total of factor incomes generated by the normal residents of a country in the form of wages, rent, interest and profit in an accounting year'.
- Concepts of national income accounting were first guided (pioneered) by the Nobel price winning economists Simon kuznets and Richard stone.



Usefulness And Significance Of National Income Estimates

- 1) It provides a framework for analyzing the short-run performance.
- 2) The distribution pattern of national income helps businesses to forecast future demand.
- 3) Economic welfare depends on magnitude & distribution of national income
- 4) NI shows composition and structure of NI of different sectors & variations in them. Helps to make comparisons of trend and speed of development
- 5) Provides quantitative basis for assessing, choosing & evaluating economic policies
- 6) Now Shows income distribution and possible inequality in its distribution. Make comparisons of statistics, such as ratios of investment, taxes, to GDP
- 7) Provides guide to make policies for growth and inflation



methods of Calculating national income

- 1. income factor income method
 - 2. Expenditure method
 - 3. Value Added method



- (1) Sabse Pehle hum Domestice income Calculate Krenge -> NDPro
- 2) Uske baad NFIA KO Add
 kar denge

 NNPFC = NDPFC + NFIA





NDPE Domestic income + NFIA = NI (NNPE)

- 1 Compensation of Employees Cost
- 2) Operating Surplus
- 3 Mixed Income of Self Employed MISE





- -> wages & Salaries
- Bonus
- Security scheme

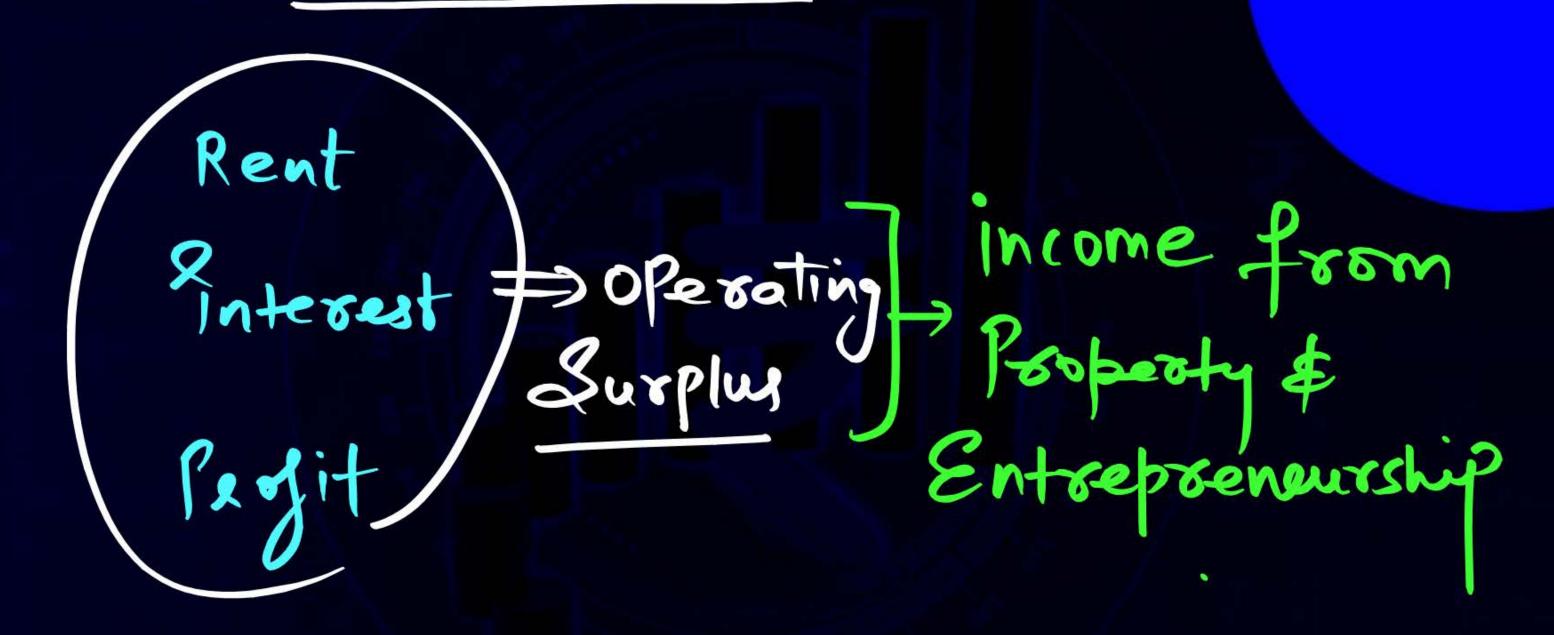
 Tratuity, kind etc.

Mixed income

Labour + Capitof income tincome









Operating

Surplus = Rent + Interest + Perfit + Royality





Operating

Rent + Interest + Profit + Royality

20



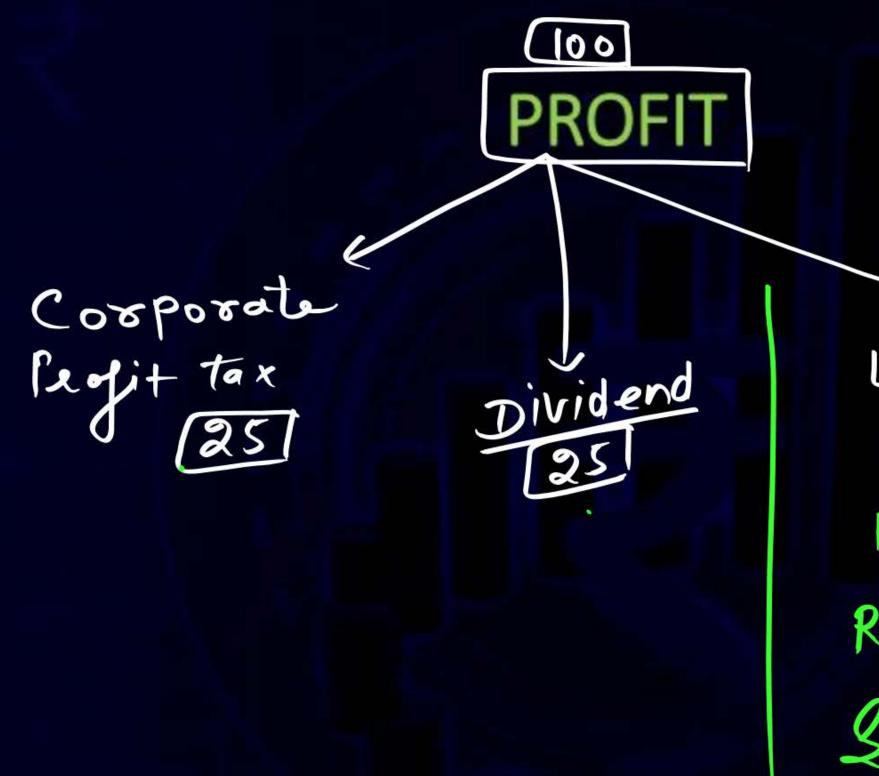
Operating

Rent + Interest - Profit + Royality

Line - Lin

Corp. tax † Divident † Undistributed Pegit





50 Undistributed Prefit Reserves

Retained Earning to

Retained Earning

Saving of Put. Corporate

Saving of Put. Corporate

Saving of Rechon





Question



#Q.	Calculate NI income method		
	Items	₹ in Crores	
	Compensation of employees Co & -	1,200	
	Net factor income from Abroad	20	3720 + 20
	Net indirect taxes	120	= 3740
	Profit	800	3720 + 20 NDPC + NFIA = 3740
	Private final consumption expenditure	2,000	TC TO THE TOTAL TO
	Net domestic capital formation	770	
	Consumption of fixed capital	130	MCOE 1200
	Rent /	400	1768 1200
	Interest	620	DCOE 1200 205 1820
	Mixed income of self-employed mise	700	
	Net export	30	3) mis & 700
	Govt. final consumption expenditure	1100	3720
	Operating surplus	1820	312
	Employer's contribution to social security scheme	300	



By Income method

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NNP<sub>FC</sub> or NI = compensation of employees + operating surplus+ Mixed income of self – employed + NFIA
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= 1200 + 1820 + 700 + 20

= 3740Crores



NDPFC =
$$C^{\circ}E + [0.5] + mi.se$$

 $2700 = 800 + [0.5] + 400$
 $2700 - [200 = 0.5]$
 $1500 = 0.5$

#Q.	Calculate	the	Operating	Surplus	with	the	help	of
	following data							

Particulars	₹ in Crores
Sales	4000
Compensation of employees	800
$\overline{\text{GDP}_{MP}}$	3400
Rent	400
Interest	300
Net indirect tax	500
Consumption of Fixed Capital	200
Mixed Income	-400

SOLUTION



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GDP_{MP} = 3400 \text{ Crores}
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$$NDP_{MP} = GDP_{MP} - consumption of fixed capital$$

$$= 3400 - 200$$

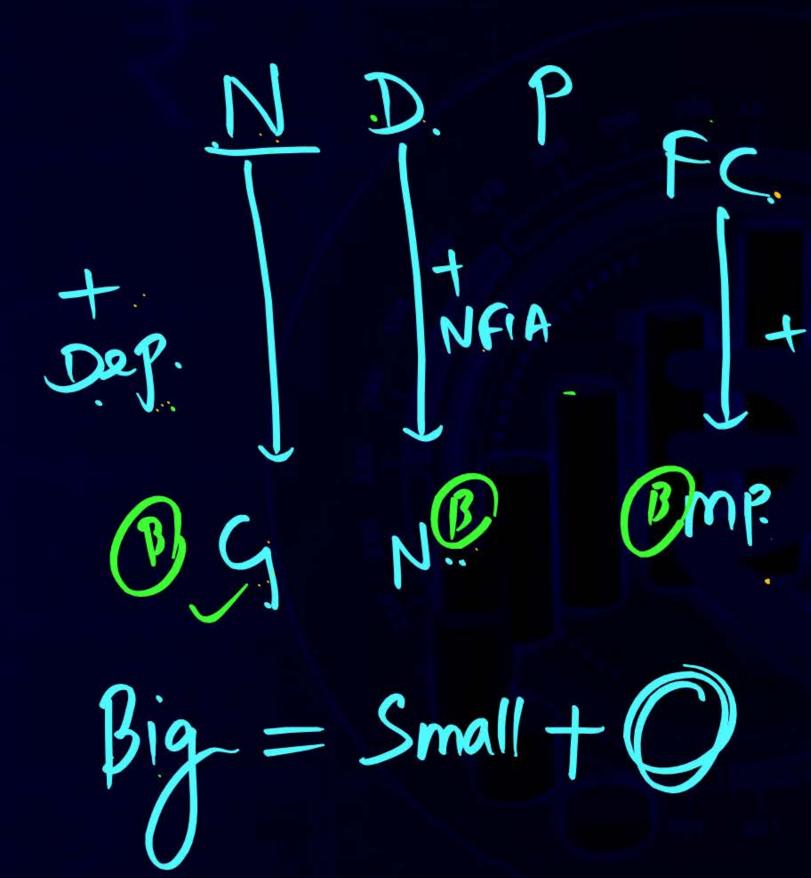
$$NDP_{FC} = NDP_{MP} - NIT$$

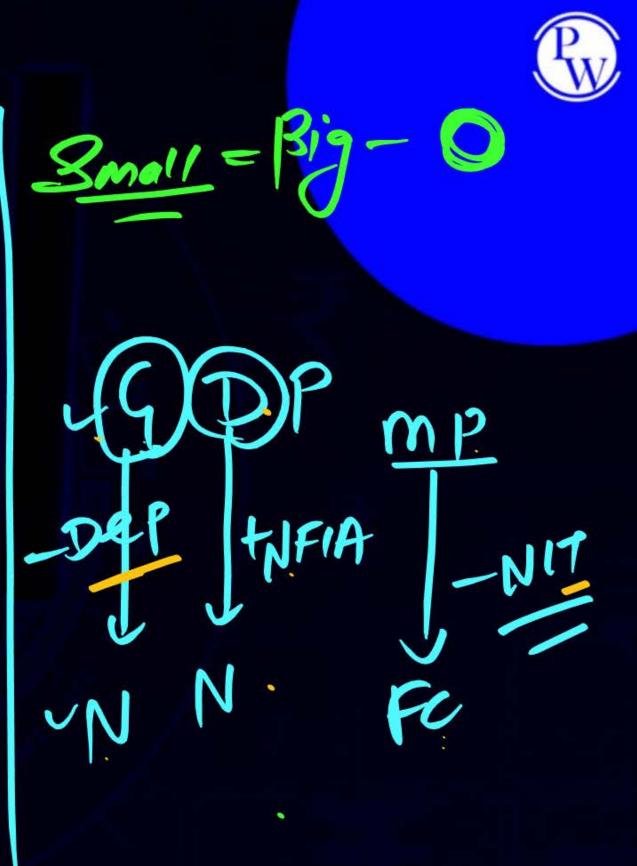
$$= 3200 - 500 = 2700$$
 Crores

NDP_{FC} = Compensation of employees + Operating surplus + Mixed income

= 800 + Operating Surplus + 400

Operating surplus = 1500 Crores







Expenditure method



① Sabse Pehle Calculate Karo → GDPmp

2) NNPFC = GDPmp-Dep. +NFIA-NIT

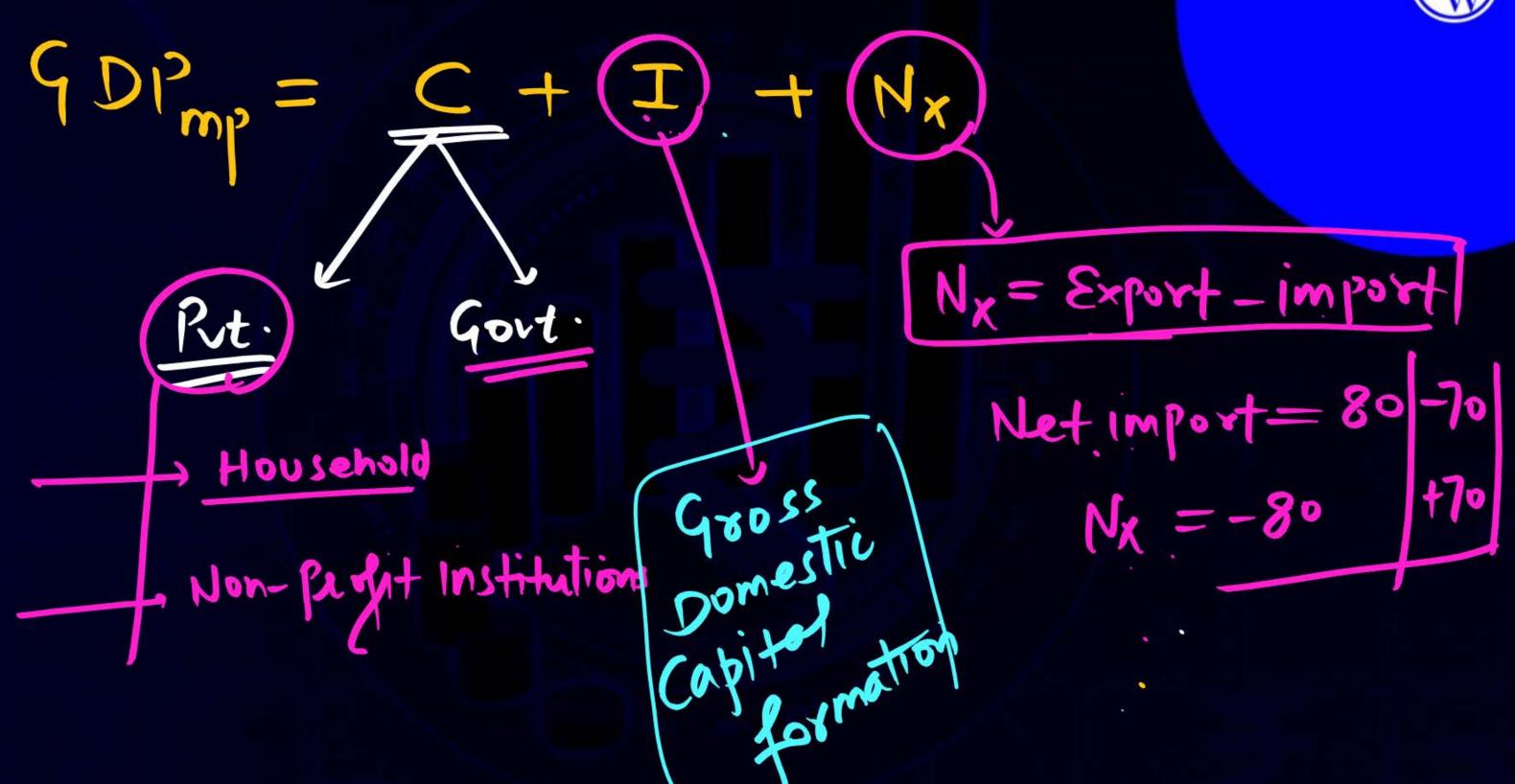


Total Exph of Country Aggregate Exph Aggregate Demand ADI



Policia Prince Consumph Expt. Cannub Extra Pirm = Investment Exp (I) goroign Net Export Nx1





Expn method -> GDPmp = C+I+NX



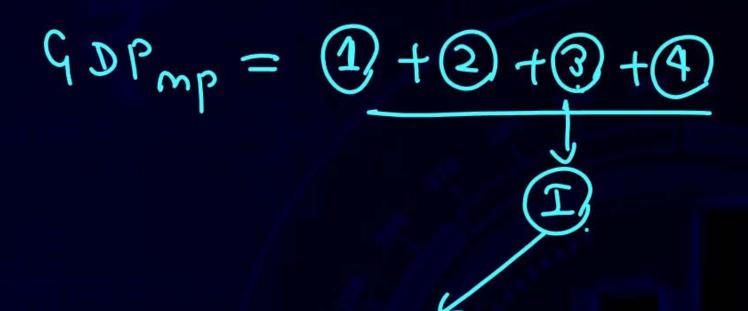
- 1) Put. final consumph Expr)
- 3) Cross Domestic Capital form + I
- 4) Net Export. (Nx)

Net Domestic = 10 Cap. form

Question



Items ₹ in Crores Compensation of employees 1,200	$F_{c} = 900mp - Dep + NF1A - NIT$ = $9030 - 130 + 20 - 120$
Compensation of employees 1,200	=4030-130+20-120
Net factor income from Abroad 20	
Net indirect taxes 120	= 3800
Profit 800	
Private final consumption expenditure 2,000	
Net domestic capital formation + De P. = I 770 +130=	900 = I 3
Consumption of fixed capital 130	
Rent 400	2000
Interest 620	100
Mixed income of self-employed 700	a D
Net export (4)	900
Govt. final consumption expenditure (2)1100	30
Operating surplus 1820	a GDP me
Employer's contribution to social security scheme 300	30 4030-5 4DPmp





I = Gross Domestic Cap. forma

= Net Domestic Cap. formy + Dep.

= Gross fixed cap. formy + change in stock

Closing-opening





Investment

- 1) Resindential investment
- (2) Business
- 3 Govt. Public
- (4) change in Stock Inventory Investment



Home work

Illustration

S and 15



2 mins Summary



