National Income Accounting

Notes:

- ✓ Net Investment = Gross Investment Deprecation
- √ Net Indirect tax = Indirect tax subsidy
- √ NFIA (Net factor Income from abroad) = Factor Income from Abroad Factor income paid to abroad
- √ Net Export = Export Import

Gross National Product

1. From the following data calculate GNP at factor cost by Income Method & Expenditure Method

Items	Rs. in Crores
Net Domestic capital formation	500
Compensation of employees	<u>1850</u>
Consumption of fixed capital (Depreciation)	100
Govt. Final Expenditure	1100
Private Final consumption Expenditure	2600
Rent	<u>400</u>
Dividend	200
Interest	<u>500</u>
Net Exports	(-) 100
Undistributed Profits	<u>900</u>
Net Factor Income From Abroad (=income from abroad - income to	<u>(-) 50</u>
abroad)	
Net Indirect Taxes (=indirect Tax - Subsidy)	250

Sol:

Income Method

GNP_{FC} = (Compensation of employees + Rent + Interest + Undistributed Profits + Dividend) + Net Factor Income from Abroad + Consumption of fixed capital = 1850 + (400 +500 +900 + 200) + (-) 50+ 100 = 3900 CRORE

FC = Factor Cost
MP = Market Price

Note:

Gross National Product

Net National Product

GNP_{FC} = NNP_{FC} + Consumption of fixed capital

- NNP_{FC or} National Income = Compensation of employees + Rent + Interest + Undistributed Profits + Dividend + Net Factor Income from Abroad
- Compensation of employees is income from work which includes wages and salaries in kind and cash, and contribution to social securities

ii. Expenditure Method

Private Final consumption Expenditure + (Net Domestic capital formation + consumption of fixed capital) + Govt. Final consumption Expenditure + Net Exports + Net Factor Income from Abroad - Net Indirect Taxes

= 1100 + 2600 + (500 + 100) + (-) 100 + (-)50 - 250

= 3900 CRORE

Note

- GNP_{MP} = Private Final consumption Expenditure + Gross Domestic capital formation + Govt. Final consumption Expenditure + Net Export + Net Factor Income from Abroad
 - Gross Domestic capital formation = Net Domestic capital formation + Consumption of fixed capital)
 - Export Import = Net Export
 - Net Factor Income from Abroad = Factor Income from Abroad –
 Factor Income Paid to Abroad
- GNP_{FC} = GNP_{MP} Indirect tax + Subsidy
 = GNP_{MP} (Indirect tax subsidy)
 - = GNP_{MP} Net Indirect tax

NDP: Net Domestic Product

2. From the following data calculate (a) Gross Domestic Product at Factor Cost , and (b) Gross Domestic Product at Market price

Rupees in Crores
6,1500
(-)50
3000
800
900
1,300
300
800
900
80

(i) GDP at factor cost

= NDP at factor cost + Depreciation

= Compensation of employees+ Rent+ Interest+ Profit +Mixed income+ (Gross domestic capital formation - Net domestic capital formation)

= =Rs 3,000crore + Rs 800 crore + Rs 900 crore + Rs 1,300 crore + (Rs 900 crore - Rs 800 crore)

= Rs 6100 crores

- (ii) Gross Domestic Product at Market Price
 - = GDP at factor cost + Net Indirect taxes
 - =Rs 6100 + Rs300 crore
 - = Rs 6,400crore

- 3. An Economy has two firms A & B on the basis of following information find out
- a) Value added by firm A & B
- b) GDP at Market Price

Items	Rs. in Lakh
Exports by firm A	20
Imports by firm A	50
Sales to households by firm A	90
Sales to firm B by firm A	40
Sales to firm A by firm B	30
Sale to household by firm B	60

Sol: a)

Value added by firm A

- = Sale to households +Sales to firm B + Exports by firm A Imports by firm A Purchase from firm B
- = Rs 90 + Rs 40+ Rs 20- Rs 50- Rs 30
- = Rs 70 Lakh

Value added by firm B

- = Sales to Firm A + Sales to households purchase from firm A
- = Rs 30+ Rs 60- Rs 40
- = Rs 50 Lakh

b) GDP_{MP}

- = Value added by firm A + value added by Firm B
- = Rs 70+ Rs 50
- = Rs 120 Lakh

4. Find out the National Income from the following particulars

Particulars	Amount (crores)
NFIA	(-) 20000
GDP (Market Price)	4400000
Capital Consumption	10000
Expenditure (i.e.	
Depreciation)	
Primary Sector	1100000
Secondary Sector	2100000
Service Sector	1250000
Intermediate Goods	50000
Indirect Tax	35000
Subsidy	5000

Hints:

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National income (or NNP at factor cost)

= NNP at Market Price - Indirect Tax + subsidy

= NDP at Market Price + NFIA - Indirect Tax + subsidy

= (GDP at market price - Capital consumption expenditure) + NFIA

- Indirect + subsidy
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consumption expenditure) + NFIA

Or

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National income (or NNP at factor cost)

= (GDP at market price - Capital consumption expenditure) +

NFIA - Indirect + subsidy

= (Output of Primary sector + Output of secondary sector + Output of tertiary sector - value of intermediate goods) - Capital
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- Indirect + subsidy

5. Determine the national income from the following information.

Private Consumption Expenditure: Rs.50000 Crore Public Investment Expenditure Rs,40000 Crore Gross Private Investment Expenditure Rs.76000 Crore Public Consumption Expenditure Rs.56000 Crore Rs.25000 Crore **Imports Exports** Rs.30000 Crore Capital Consumption Expenditure Rs.5000 Crore NFIA (-) Rs.12000 Crore **Indirect Tax** Rs.50000 Crore Subsidy Rs.10000 Crore

Hints

National income (or NNP at factor cost)

- = NNP at Market Price Indirect Tax + subsidy
- = NDP at Market Price + NFIA Indirect Tax + subsidy
- = (GDP at market price Capital consumption expenditure) + NFIA Indirect + subsidy
- (Private Consumption Expenditure + Gross Private Investment
 Expenditure + Public Investment Expenditure + Public Consumption
 Expenditure Capital consumption expenditure) + (Export Import) + NFIA
 Indirect + subsidy

Note:

Public means government

- 6. Find out the national income of India from the following data
- (A) NDP $_{fc}$: Rs.5000000 Crore ; NFIA(-):Rs 20000 Crore ; Depreciation :Rs.5000 Crore
- (B) GDP_{mp} : 40 Lac Crore ; GNP_{fc} :50 Lac Crore,; NFIA (+) 01 Lac Crore; Depreciation : Rs.02 Lac Crore.

Hints

- A. National income or NNP at factor cost
 - $= NDP_{fc} + NFIA$
- B. National income or NNP at factor cost
 - = GNP_{fc} Depriciation
- 7. Find out NNP_{FC} from the following information

GNP $_{MP}$ 500000 (Crores)

NFIA (-) 700 (Crores)

Depreciation 15000 (Crores)

Subsidy 8000 (Crores)

Indirect Tax 12000 (Crores)

Hints: NNP_{FC} = GNP_{MP} - Indirect tax + subsidy - Depreciation