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# **4. NATIONAL INCOME ACCOUNTING**

# **ASSIGNMENT SOLUTIONS**

### PROBLEM NO: 1

Value of output = Sales +  $\Delta$  in stock

= 200 Crores + (Closing Stock - Opening stock)

= 200 Crores + (10 Crores - 15 Crores) = 200 Crores - 5 Crores = 195 Crores

Value added at MP= Value of output - Intermediate consumption

= 195 Crores - 48 Crores = 147 Crores

Value Added at FC = Value Added at MP - Net Indirect Taxes

= 147 Crores - 20 Crores = 127 crores

Note: In product and Expenditure method if neither GROSS nor NET is given consider GROSS.

In Income method if neither GROSS nor NET is given consider NET.

### PROBLEM NO: 2

GDP<sub>MP</sub> (Production method): Value of Final Output - Value of Intermediate Sector.

= (1,000 + 900 + 700) - (500 400 - 400)

= 2,600 - 1,300 = 1,300 erores

GDP<sub>MP</sub> (Income method): Compensation of employees toperating surplus + mixed income + consumption of fixed capital + Net Indirect Taxes

= 400 + 300 + 550 + 40 + 10 = 1,300 Crores

## PROBLEM NO: 3

#### Computation of Gross National Product at Market Price (GNP<sub>MP</sub>):

GNP<sub>MP</sub> = (Value of output in primary sector - Intermediate consumption of primary sector) + (Value of output in secondary sector - Intermediate consumption of secondary sector) + (Value of output in tertiary sector - Intermediate consumption of tertiary sector) + Net Factor Income from Abroad

 $GNP_{MP} = [(800 - 300) + (1,000 - 400) + (3,000 - 900)] + (100)$ 

= 500 + 600 + 2,100 - 100 = 3,200 - 100 = Rs. 3,100 Crores

### <u>PROBLEM NO: 4</u>

Value of output	= Sale + Change in stock = 700 + 40 = 740
Net Value added at MP	= Value of output - Purchase of intermediate product - depreciation
	= 740 - 400 - 80 = 260 thousands

### PROBLEM NO: 5

Net value added at MP	= Value of Output - Intermediate Cost - Depreciation
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= 400 - 200 - 20 = 180 lakhs

### PROBLEM NO: 6

Gross National Disposable Income (GNDI) =  $GNP_{MP}$  + Net current transfer received from rest of the world. **Calculation:**  $GNP_{MP}$  =  $NDP_{FC}$  + Consumption of fixed capital+ NFIA + (Indirect Taxes - Subsidies)

Gross National Disposable Income (GNDI)= GNP<sub>MP</sub> + Net current transfers from rest of the world

#### = 6,200 + 500 = 6,700 Crores

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# PROBLEM NO: 7

- GNDI = GNP<sub>MP</sub> + Net current transfer received from rest of the world
- GNP<sub>MP</sub> = National Income (NNP<sub>FC</sub>) + Consumption of Fixed Capital + Net Indirect Taxes

= 2,000 + 100 + 250 = 2,350 crores

GNDI = GNP<sub>MP</sub> + Net current transfer received from rest of the world = 2,350 + 200 = 2,550 crores

### **PROBLEM NO: 8**

National Income (NNP <sub>FC</sub>	) = Govt. Final Consumption Expenditure + Private Final Consumption Expenditure + Net domestic fixed capital formation + Change in Stock + Net Exports + NFIA - Net Indirect Taxes
	= 200 + 600 + 100 + 10 + (20) + 5 + (5) = 890 Crores
Depreciation	= Gross domestic fixed capital formation - Net domestic fixed capital formation
	= 125 - 100 = 25 crores
GNDI	= NNP + Net Indirect Tax + Net Current transfers from abroad + depreciation
	= 890 + 05 + 15 + 25 = 935 crores

#### PROBLEM NO: 9

NNP<sub>MP</sub> = Private final Consumption expenditure + Govt. final consumption expenditure + Net domestic capital formation - Net imports + NFIA

NNP<sub>MP</sub> = 200 + 50 + 30 - 10 + 5 = 275 Crores

GNDI = NNP<sub>MP</sub> + Net Current transfers from abroad + Depreciation (consumption of fixed capital) = 275 + (10) + 15 = 280 Crores

### PROBLEM NO: 10

National Income (NNP <sub>FC</sub> )	= Compensation of employers + Interest + Mixed income of self-employed +		
	Profit + Rent+ Net Factor Income from Abroad		
	= 1,000 + 250 + 800 + 500 + 200 + (50) = 2,700 Crores		
Personal Disposable Income	= Private income - Net retained earnings of private employees - Co-operation		
	<ul> <li>Direct taxes paid by houses hold's</li> </ul>		

= 2,000 - 150 - 100 - 120 = 1,630 Crores

### PROBLEM NO: 11

- NDP<sub>FC</sub> = Compensation of employers + Operating surplus + Mixed income of self-employed
  - = 400 + 200 + 500 = 1,100 Crores
- NNDI = NDP<sub>FC</sub> + Net factor income from abroad + Net indirect taxes + Net current transfer from Rest of the world

= 1,100 + (50) + 90 + 20 = 1,160 Crores

Personal Income = Private Income - Corporation Profit Tax - Savings of Private Corporate Sectors

Private Income = NDP<sub>FC</sub> - Saving of non-departmental enterprises - Income from property & entrepreneurship to govt. administrative Department + National debt interest + Current transfer from govt. + Net current transfer from Rest of the world + Net factor income from abroad

Personal Income = 1,130 - 80 - 20 = 1,030 Crores

#### PROBLEM NO: 12

Private Income = Income from domestic product accruing to private sector + Net current transfer from rest of the world + Net current transfer from govt. administrative dept. + National debt interest + Net factor income from abroad

= 250 + 40 + 10 + 20 + 05 = 325 Crores

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### **PROBLEM NO: 13**

National Income - Income from property and entrepreneurship to Govt. administrative dept. Private Income = - Saving of non-department public enterprises + Current transfer from Govt. administrative dept. + Current transfer from rest of the world

> 5,050 - 500 - 100 + 200 + 80 = 4,730 Crores =

Personal Disposable Income = Private Income - Corporation tax - Saving of private corporate sector -Direct personal tax

4,730 - 80 - 500 - 150 = 4,000 Crores

### **PROBLEM NO: 14**

Net Domestic product at Factor cost = Compensation of employees (wages and salaries) + Operating Surplus (rent, interest and profit) + Mixed Income

= 7,142 + 8,912 + 541 + 1,013 + 714 + 450 = 18,772 crores

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# **PROBLEM NO: 15**

Personal Income = Net Domestic Product accruing to private sector + Net Factor Income from abroad + Net Current transfers from government +Net current transfers from rest of the world + Interest on National Debt - Corporation Tax - Undistributed Profits of corporations

= 700 + 10 + 25 + 20 + 40 - 65 - 50 = 680 crores

### **PROBLEM NO: 16**

National Income by Value Added = GDP<sub>MP</sub> - Depreciation +NFIA -Net Indirect tax.

Where GDP<sub>MP</sub> = Value of Output - Intermediate consumption

= Sales + Change in stock = 700 + [400, 500] = 600 Value of Output

= 600 - 350 = 250 **GDP**<sub>MP</sub>

National Income (NNP<sub>FC</sub>) = GDP<sub>MP</sub> - Depreciation 大的FIA - Indirect Taxes + Subsidies

= 250 - 150 + 30 - 110 + 50 = 70 Crores

**PROBLEM NO: 17** 

#### Method: Expenditure method

GDP<sub>MP</sub> = Final Consumption Expenditure + Gross Domestic Capital Formation + Net Exports

Particulars	Rs. in crores	Rs. in crores
Personal Consumption Expenditure	2,900	
Government Purchases of Goods & Services	1,100	
Final Consumption Expenditure		4,000
Gross Public Investment	500	
Inventory Investment	170	
Gross Residential Construction Investment	450	
Gross Business Fixed Investment	410	
Gross Domestic Capital formation		1,530
Exports	200	
(Imports)	(300)	
Net Exports		(100)
Gross Domestic Product at Market Price (GDP <sub>MP</sub> )		5,430

#### To find:

GNP<sub>FC</sub> = GDP<sub>MP</sub> + NFIA - Indirect taxes + Subsidies

= 5,430 + (30) - 0 + 80 = 5,480 crores

 $NDP_{MP} = GDP_{MP}$  - Consumption of fixed capital (depreciation)

= 5,430 - 60 = 5,370 crores

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