



LILHA EDUCATION CENTRE

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MEASUREMENT OF NATIONAL INCOME

1. Calculate Net Value Added at factor cost from the following data:

	Rs. Lakhs
a. Opening stock	20
b. Sales tax	75
c. Subsidy	5
d. Consumption of fixed capital	50
e. Closing stock	40
f. Sales	500
g. Intermediate consumption	320
h. Operating surplus	60

(Hint: Sales tax is an indirect tax)

2. Calculate gross value added at Market price:

	Rs. Lakhs
a. Excise duty	40
b. Consumption of fixed capital	15
c. Closing stock	20
d. Sales	700
e. Subsidy	5
f. Intermediate consumption	400
g. Opening stock	10

3. Determine gross value added at market price for primary, Secondary and tertiary sector and National income from following data:

	Crores
a. Value of output by	
i. Primary sector	800
ii. Secondary sector	200
iii. Tertiary sector	300
b. Value of intermediate cost by:	
i. Primary sector	400
ii. Secondary sector	100
iii. Tertiary sector	50
c. Indirect taxes	50
d. Consumption of fixed capital	80
e. Factor income received from abroad	10
f. Factor income paid abroad	20
g. Subsidies	20

4. Calculate Net value added at factor cost from following data:

Items	Rs. Lakhs
a. Opening stock	10
b. Consumption of fixed capital	20



c. Sales	200
d. Excise duty	15
e. Purchase of Raw material	80
f. Closing stock	30
g. Sales tax	5
h. Purchase of service from other firms	10

Income Method

5. Determine National Income from following data:

	Rs. Crores
a. Dividends	100
b. Rent	150
c. Wages and Salaries	350
d. Corporation Tax	50
e. Consumption of fixed capital	40
f. Net indirect taxes	60
g. Undistributed profits	90
h. Mixed income of self employed	200
i. Interest	70
j. Employers contribution to social security schemes	40
k. Net foreign income from Abroad	(-) 10

6. Calculate National income from the data given below:

Items	Rs Crores
a. Rent	80
b. Interest	100
c. Profits	210
d. Tax on profits	30
e. Employees contribution to social security schemes	25
f. Mixed income of self employed	250
g. Net indirect taxes	60
h. Employer's contribution to society security schemes	50
i. Compensation of employees	500
j. Net factor income from abroad	(-) 20

[Hint: Profits include tax on profits]

7. Calculate gross National product at market price from the following data:

	Rs Lakhs
a. Wages and salaries	
b. Net capital formation	
c. Exports	
d. Imports	
e. Gross capital formation	
f. Employer's contribution to Social Security Schemes	
g. Net factor income from abroad	
h. Rent and interest	
i. Profit	
j. Indirect taxes	
k. Subsidies	

8. Determine GNP at market from the information given below:

Items	Rs. Crores
a. Private consumption expenditure	5000
b. Govt. consumption expenditure	1500
c. Gross fixed capital formation	1000
d. Increase in stocks	200
e. Exports	500
f. Imports	700
g. Capital consumption allowance	650
h. Net indirect taxes	500

9. From following information determine GNP_{MP} with expenditure method:

Items	Rs. Crores
a. Gross domestic fixed investment	1500
b. Increase in inventories	250
c. Govt. consumption expenditure	1250
d. Exports of goods and services	850
e. Imports of goods and services	1050
f. Personal disposable income	11500
g. Personal savings	1550

10. Calculate from following data, gross national product at factor cost by (a) Income method, (b) Expenditure method

	Rs. Crores
a. Compensation of employees	1000
b. Operating surplus	500
c. Employers contribution to social security schemes	120
d. Net exports	(-) 30
e. Net indirect taxes	40
f. Mixed income of self employed	600
g. Net factor income to Abroad	20
h. Consumption of fixed capital	40
i. Private final consumption expenditure	1400
j. Govt. final consumption expenditure	490
k. Net fixed capital formation	250
l. Change in stock	30
m. Interest on national debt	25

11. Compute GDP at factor cost by expenditure method and income method from following data:

	Rs. Crores
a. Compensation of employees	110
b. Govt. final consumption expenditure	55
c. Private final consumption expenditure	200
d. Operating surplus	90
e. Gross fixed capital formation	70
f. Change in stocks	65
g. Mixed income of self employed	100
h. Consumption of fixed capital	70
i. Net indirect taxes	10
j. Net exports	(-) 10

12. Calculate NNP at Factor cost from following data:

	Rs. crores
a. Private final consumption expenditure	290
b. Govt. Final consumption expenditure	50
c. Subsidies	20
d. Gross domestic fixed capital formation	105
e. Indirect Taxes	70
f. Depreciation Provision	45
g. Net factor income from abroad	(-) 5
h. Net addition to stocks	15
i. Net exports	(-) 5
13. From the data given below calculate (a) GDP _{MP} by expenditure method (b) National income by income method.	
a. Compensation of employees	13000
b. Interest, rent and profit	5000
c. Indirect taxes	3800
d. Gross fixed capital formation	8100
e. Govt. final consumption expenditure	3600
f. Change in stocks	1000
g. Mixed income of self employed	16000
h. Imports of goods and services	1800
i. Exports of goods and services	1700
j. Subsidies	200
k. Private final consumption expenditure	27000
l. Net factor income from abroad	(-) 250
m. Consumption of fixed capital	2000
14. From the following data relating to a firm (a) estimate the net value added at market prices (b) show that the net value added at factor cost is equal to the sum of factor income:	
a. Domestic sales	1080
b. Purchase of raw materials and other inputs	360
c. Exports	120
d. Depreciation pf fixed capital	45
e. Imports of raw materials	60
f. Increase in stocks	120
g. Indirect taxes	30
h. Dividends	90
i. Undistributed profits	60
j. Interest payments	270
k. Salaries and wages	360
l. Rent payments	45
15. Calculate Gross Domestic Product at Market price by (a) Production Method (b) Income Method:	
a. Intermediate Consumption by	
i. Primary sector	500
ii. Secondary sector	400
iii. Tertiary sector	300
b. Value of output by	
i. Primary sector	1000
ii. Secondary sector	900
iii. Tertiary sector	700
c. Rent	10

d. Emoluments of employees	400
e. Mixed income	650
f. Operating surplus	300
g. Net factor income from Abroad	(-) 20
h. Interest	5
i. Consumption of fixed capital	40
j. Net indirect taxes	10
16. Calculate GNP at market price by (a) Expenditure Method (b) Income Method from following data:	
a. Government final consumption expenditure	400
b. Net exports	20
c. Operating surplus	320
d. Net capital formation	250
e. Employers contribution to social security	100
f. Private final consumption expenditure	1200
g. Wages and salaries	1300
h. Net indirect taxes	150
i. Net factor income from Abroad	(-) 20
j. Rent	100
k. Consumption of fixed capital	50
17. Calculate National income from the following:	
a. Mixed income of self employed	110
b. Wages and salaries paid in cash	100
c. Factor income received from abroad	5
d. Travel allowance to employees for enjoying holidays	2
e. Operating surplus	60
f. Imputed rent of free accommodation to employees	10
g. Rent	30
h. Factor income paid to abroad	15
i. Employer's contribution to social security scheme	3
18. Calculate Gross National Product at market prices from the following:	
a. Net factor income paid abroad	(-) 10
b. Wages and salaries paid in cash	200
c. Consumption of fixed capital	25
d. Operating surplus	100
e. Profits	25
f. Rental value of free accommodation to employees	20
g. Net indirect tax	20
h. Estimated Int. on interest free accommodation to employees	5
i. Employer's contribution to social security schemes	10
19. From the following data calculate the Gross Domestic Product at Market prices:	
a. Value of output in primary sector	2000
b. Intermediate consumption of secondary sector	800
c. Intermediate consumption of primary sector	1000
d. Net factor income from abroad	- 30
e. Net indirect taxes	300
f. Value of output of tertiary sector	1400
g. Value of output of secondary sector	1800
h. Intermediate consumption of tertiary sector	600

20. Calculate GNP by Income Method and Expenditure Method from the following data:

a. Rent	40
b. Private Final Consumption expenditure	800
c. Net exports	20
d. Interest	60
e. Profit	120
f. Government Final consumption expenditure	200
g. Net domestic capital formation	100
h. Compensation of employees	800
i. Consumption of fixed capital	20
j. Net indirect taxes	100
k. Net factor income from abroad	(-) 20

21. From the following data calculate national income by income and expenditure method:

a. Government final consumption expenditure	100
b. Subsidies	10
c. Rent	200
d. Wages and salaries	600
e. Indirect tax	60
f. Private final consumption expenditure	800
g. Gross domestic capital formation	120
h. Social security contributions by employers	55
i. Royalty	25
j. Net factor income paid abroad	30
k. Interest	20
l. Net domestic capital formation	110
m. Profit	130
n. Net exports	70

22. From the following data, calculate net national product at factor cost by (a) income method (b) expenditure method

a. Current transfers from rest of the world	100
b. Government final consumption expenditure	1000
c. Wages and salaries	3800
d. Dividend	500
e. Rent	200
f. Interest	150
g. Net domestic capital formation	500
h. Profits	800
i. Employer's contribution to social security schemes	200
j. Net exports	(-) 50
k. Net factor income from abroad	(-) 30
l. Consumption of fixed capital	40
m. Private final consumption expenditure	4000
n. Net indirect tax	300

23. Calculate sales from following data:

a. Net value added at factor cost	300
b. Intermediate consumption	200
c. Indirect tax	20
d. Depreciation	30

- e. Change in stock (-) 50
24. Calculate sales from the following data
- | | |
|------------------------------------|--------|
| a. Intermediate cost | 700 |
| b. Consumption of fixed cost | 80 |
| c. Change in stock | (-) 50 |
| d. Subsidy | 60 |
| e. Net value added at factor costs | 1300 |
| f. Exports | 50 |
25. Calculate net value added at factor cost from the following data:
- | | |
|--|--------|
| a. Sales | 700 |
| b. Purchase of machinery for installation in factory | 100 |
| c. Subsidies | 50 |
| d. Change in stock | (-) 30 |
| e. Purchase of raw material | 400 |
| f. Rent | 60 |
| g. Consumption of fixed capital | 20 |
26. Calculate gross national product at factor cost from following data by (i) Income method (ii) expenditure method.
- | | |
|---|--------|
| a. Private final consumption expenditure | 1000 |
| b. Net domestic capital formation | 200 |
| c. Profit | 400 |
| d. Compensation of employees | 800 |
| e. Rent | 250 |
| f. Govt. final consumption expenditure | 500 |
| g. Consumption of fixed capital | 60 |
| h. Interest | 150 |
| i. Net current transfers from rest of world | (-) 80 |
| j. Net factor income from abroad | (-) 10 |
| k. Net exports | (-) 20 |
| l. Net indirect taxes | 80 |
27. From the following, calculate National income by (i) Income method (ii) Expenditure method.
- | | |
|---|--------|
| a. Net domestic capital formation | 360 |
| b. Interest | 200 |
| c. Rent | 300 |
| d. Private final consumption expenditure | 1300 |
| e. Govt. final consumption expenditure | 730 |
| f. Net exports | (-)20 |
| g. Net indirect taxes | 70 |
| h. Net current transfers from rest of world | 80 |
| i. Consumption of fixed capital | 60 |
| j. Net factor income from abroad | (-) 50 |
| k. Profit | 600 |
| l. Compensation of employees | 1200 |
28. From the following data, calculate 'national income' by (a) income method and (b) expenditure method :
- | | |
|---|------|
| a. Interest | 150 |
| b. Rent | 250 |
| c. Government final consumption expenditure | 600 |
| d. Private final consumption expenditure | 1200 |
| e. Profits | 640 |

f. Compensation of employees	1000
g. Net factor income to abroad	30
h. Net indirect taxes	60
i. Net exports	(-) 40
j. Consumption of fixed capital	50
k. Net domestic capital formation	340

29. Calculate (a) GDP_{FC} and (b) Factor income to abroad from following:

a. GNP at factor cost	3750
b. Compensation of employees	2000
c. Net exports	(-) 50
d. Profit	700
e. Net domestic capital formation	1000
f. Opening stock	150
g. Closing stock	200
h. Gross fixed capital formation	1050
i. Interest	600
j. Rent	400
k. Factor income from abroad	20

30. Calculate 'Gross National Product at Market price' by the production method and income method

a. Value of output of primary sector	1000
b. Indirect tax	200
c. Compensation of employees	780
d. Net factor income to abroad	100
e. Intermediate purchases by all the sectors	2900
f. Rent	300
g. Value of output of the secondary sector	2000
h. Subsidy	50
i. Interest	600
j. Consumption of fixed capital	120
k. Value of output of tertiary sector	3000
l. Profits	320
m. Mixed income of self employed	830

31. Calculate Net Domestic product at factor cost by (a) Income Method ; (b) Production method from the following data:

a. Net value added at market price by primary sector	1000
b. Wages and salaries	2000
c. Social security contributions by employers	100
d. Net value added at market price by secondary sector	600
e. Corporation tax	30
f. Retained earnings of private corporations	10
g. Net valued at market price by tertiary sector	1400
h. Dividend	60
i. Rent	300
j. Interest	300
k. Net indirect tax	200
l. Social security contribution by employees	80

32. Find Gross Value added at factor cost:

a. Units of output sold	2000
-------------------------	------

- | | |
|---|----------|
| b. Price per unit of output | 20 |
| c. Depreciation | 2000 |
| d. Change in stocks | (-) 500 |
| e. Intermediate costs | 15000 |
| f. Subsidy | 3000 |
| 33. Find net value added at factor cost | |
| a. Intermediate cost | 15000 |
| b. Output sold (units) | 9000 |
| c. Price per units of output | 4 |
| d. Consumption of fixed capital | 2000 |
| e. Excise duty | 4000 |
| f. Change in stock | (-) 1000 |
| 34. Calculate gross value added at factor cost | |
| a. Units of output sold (units) | 1000 |
| b. Price per unit of output | 30 |
| c. Depreciation | 1000 |
| d. Intermediate cost | 12000 |
| e. Closing stock | 3000 |
| f. Opening stock | 2000 |
| g. Excise Tax | 2500 |
| h. Sales Tax | 3500 |
| 35. Calculate gross National product at Factor cost by (i) Income Method and (ii) Expenditure method from the following data: | |
| a. Private final consumption expenditure | 800 |
| b. Government final consumption expenditure | 300 |
| c. Compensation of employees | 600 |
| d. Net imports | 50 |
| e. Gross domestic capital formation | 150 |
| f. Consumption of fixed capital | 20 |
| g. Net indirect taxes | 100 |
| h. Net factor income from abroad | (-) 70 |
| i. Dividend | 150 |
| j. Rent | 120 |
| k. Interest | 80 |
| l. Undistributed profits | 80 |
| m. Social security contributions by employers | 60 |
| n. Corporate tax | 50 |
| 36. From the following data calculate Gross National Product at Factor cost by (i) Income Method (ii) Expenditure Method: | |
| a. Government final consumption expenditure | 200 |
| b. Private final consumption expenditure | 400 |
| c. Profits | 160 |
| d. Net indirect taxes | 60 |
| e. Rent | 70 |
| f. Interest | 50 |
| g. Compensation of employees | 300 |
| h. Exports | 65 |
| i. Imports | 95 |

- | | |
|---|--------|
| j. Gross domestic capital formation | 80 |
| k. Consumption of fixed capital | 10 |
| l. Net factor income to abroad | 50 |
| 37. Calculate 'Gross National Product at Market price' from the following data: | |
| a. Compensation of employees | 2000 |
| b. Interest | 500 |
| c. Rent | 700 |
| d. Profits | 800 |
| e. Employer's contribution to social security schemes | 200 |
| f. Dividends | 300 |
| g. Consumption of fixed capital | 100 |
| h. Net indirect taxes | 250 |
| i. Net exports | 70 |
| j. Net factor income to abroad | 150 |
| k. Mixed income of self-employed | 1500 |
| 38. Calculate National Income | |
| a. Private final consumption expenditure | 900 |
| b. Profit | 100 |
| c. Government final consumption expenditure | 400 |
| d. Net indirect taxes | 100 |
| e. Gross domestic capital formation | 250 |
| f. Change in stock | 50 |
| g. Net factor income from Abroad | (-) 40 |
| h. Consumption of fixed capital | 20 |
| i. Net imports | 30 |
| 39. Calculate National income with the help of income and expenditure method. | |
| a. Private final consumption expenditure | 210 |
| b. Government final consumption expenditure | 50 |
| c. Net domestic capital formation | 40 |
| d. Net exports | (-) 5 |
| e. Wages and salaries | 170 |
| f. Employer's contribution towards provident fund 10 | |
| g. Profits | 45 |
| h. Interest | 20 |
| i. Indirect tax | 30 |
| j. Economic subsidies | 5 |
| k. Rent | 10 |
| l. Net factor income from abroad | 30 |
| m. Consumption of fixed capital | 25 |
| n. Royalty | 15 |
| 40. Estimate Net National Income at factor cost using following data: | |
| a. Compensation of employees | 600 |
| b. Govt. final consumption expenditure | 550 |
| c. Net factor income from Abroad | (-) 10 |
| d. Net exports | (-) 15 |
| e. Profits | 400 |
| f. Net indirect tax | 60 |
| g. Mixed income of self-employed | 350 |

- | | |
|--|------|
| h. Rent | 200 |
| i. Interest | 310 |
| j. Private final consumption expenditure | 1000 |
| k. Net domestic capital formation | 385 |
| l. Consumption of fixed capital | 65 |
41. Gross domestic product at market price is given as Rs. 750 crores for the following data, but Gross fixed capital formation is not known. Use the given data and calculate Gross Fixed formation from it.
- | | |
|--|--------|
| a. Private final consumption expenditure | 500 |
| b. Net indirect tax | 50 |
| c. Net exports | (-) 20 |
| d. Capital consumption allowance | 65 |
| e. Government final expenditure | 150 |
| f. Increase in stock | 20 |
42. Calculate net value added at factor costs from the following:
- | | |
|------------------------------------|------|
| a. Net factor income from abroad | 30 |
| b. Sales | 3500 |
| c. Purchases of intermediate goods | 2000 |
| d. Consumption of fixed capital | 500 |
| e. Exports | 400 |
| f. Indirect taxes | 350 |
| g. Changes in stock | 50 |
43. From the following data calculate net value added at factor costs.
- | | |
|-----------------------------------|-----|
| a. Sales | 500 |
| b. Purchase of intermediate goods | 350 |
| c. Opening stock | 60 |
| d. Indirect taxes | 50 |
| e. Consumption of fixed capital | 90 |
| f. Consumption of raw material | 85 |
| g. Closing stock | 80 |
44. Find the net value added at market price:
- | | |
|--|-------|
| a. Fixed capital goods with a life span of 5 years | 15 |
| b. Raw materials | 6 |
| c. Sales | 25 |
| d. Net changes in stock | (-) 2 |
| e. Taxes on production | 1 |
45. Find gross value added at Market price
- | | |
|------------------------------|--------|
| a. Depreciation | 20 |
| b. Domestic sales | 200 |
| c. Net change in stocks | (-) 10 |
| d. Exports | 10 |
| e. Single use producer goods | 120 |