1. Price Elasticity of Demand

$$PED = \frac{\% change in quantity demanded}{\% change in price}$$

2. Cross Elasticity of Demand

$$XED = \frac{\% \ change \ in \ quantity \ demanded \ for \ Good \ X}{\% \ change \ in \ price \ of \ Good \ Y}$$

Where:

Positive XED => products are substitutes

Negative XED => products are complements or jointly demanded.

3. Income Elasticity of Demand

$$YED = \frac{\% \ change \ in \ quantity \ demanded}{\% \ change \ in \ income}$$

Where:

Positive YED => Normal Goods

Negative YED => Inferior Goods

4. Price Elasticity of Supply

$$PES = \frac{\% \ change \ in \ quantity \ supplied}{\% \ change \ in \ price}$$

5. Slope of Indifference Curve (for Good X and Good Y)

$$Slope_{IC} = \frac{MU_x}{MU_y}$$

Where:

 MU_x = Marginal Utility of Good X

 $MU_v = Marginal Utility of Good Y$

6. Budget Line (for Good X and Good Y)

$$I = 0$$

Where:

I = Income

 Q_x = Quantity of Good X P_x = Price of Good X Q_y = Quantity of Good Y P_y = Price of Good Y

	Rate of Exchange between Y and $X = Slope$ of Budget Line			
				
	——————————————————————————————————————			
	_ _			
				
7.	Consumer Equilibrium or Equimarginal Principle Consumer Equilibrium is attained at the point where Indifference Curve (IC) is tangent to the Budget Line (BL).			
8.	Average Product (AP)			
9.	Marginal Product (MP)			
10.	Average Fixed Cost (AFC)			
11.	Average Variable Cost (AVC)			
12.	Total Cost (TC)			
	$Total\ Cost = Fixed\ Cost + Variable\ Cost$			

When Output is Zero *Total Cost = Fixed Cost*

13. Marginal Cost (MC)

$$MC = \frac{Change \ in \ TC}{Change \ in \ TP}$$

Where TC = Total Cost

TP = Total Product

14. Average Cost (AC)

$$Average\ Cost = \frac{Total\ Cost}{Total\ Product}$$

15. Total Revenue (TR)

$$TR = Price \times Quantity$$

16. Average Revenue (AR)

$$AR = \frac{Total\ Revenue}{Total\ Product}$$

17. Marginal Revenue (MR)

$$MR = \frac{Change\ in\ TR}{Change\ in\ TP}$$

18. Profit

$$Profit = TR - TC$$

19. Marginal Revenue Product of Labour (MRPL)

A firm will continue to hire labour up to the point where:

$$MR = MC$$

(This is also profit maximizing output level)

$$MRPL = \frac{Change \ in \ TR}{Change \ in \ Labour \ Units}$$
 $MPL = \frac{Change \ in \ TP}{Change \ in \ Labour \ Units}$

20. Social Benefits and Social Costs

21. Terms of Trade

$$Terms \ of \ Trade \ Index = \frac{Index \ of \ Export \ Prices}{Index \ of \ Import \ Prices} \times 100$$

22. Consumer Price Index (CPI)				
Where:				
W = Weight associated to commodity in household expenditure				
P = Price of commodity				
N = Total number of commodities in the basket of goods and services index				
23. National Income				
Gross Domestic Product (GDP) = Total Output produced in an economy within a year				
Gross National Product (GNP) = GDP + Net Property Income from Abroad (NPIA)				
Net National Product (NNP) = GNP – Capital Consumption				
Net Domestic Product (NDP) = GDP – Capital Consumption				
24. Real GDP				
25. GDP Deflator				
26. Aggregate Expenditure (AE) or National Income (Y)				

G = Government Spending

M = Imports

I = Investment

(X - M) = Net Exports

Where:

C = Consumption

X = Exports

28. Multiplier			
26. Wultiplier			
			
Multiplier in Two-Sector economy (household & firms) = —			
Multiplier in Three-Sector economy (2-sector+ government) ———			
Where mrt = marginal rate of taxation			
Multiplier in Four-Sector economy (3-sector+ Trade) ————			
Where: mpm = marginal propensity to import			
29. Credit Multiplier			

Labour force = Total number of employed people	people + Total number of unemployed			
31. Adult Population				
Adult Population = Total labour force + N	umber of people not in labour force.			
32. Labour Force Participation Rate				
Labour Force Participation Rate =				
33. Unemployment Rate:				
34. Real Exchange Rate				
35. Monetary Equation (Quantity Theory of Money)				
_	_			
Nominal $GDP = PY$				
Where:				
M = Money Supply	Y = Real GDP			
P = Price Level	V = Velocity of Money			

30. Total Labour Force