



The price of different factors of production; is determined by the forces of demand and supply.

- E.g. demand for labor is high but the supply of labor is low _____*SHORTAGE ______price of labor is high.
- Demand for capital is low and supply of capital is high ———— SURPLUS ———— price ofcapital is low.
- The availability of factors of production determines the quantity available.
- PRODUCTIVITY of FOP

What is Productivity?



Productivity is expressed or measured as a mathematical division of following parameters (functions).

Output / Input = Productivity

Per unit of time& per unit of FOP. MCQ

Difference Between Production & productivity

Labor intensive vs Capital Intensive.

<u>Labor intensive</u> is when a larger proportion of labor is used in a production process as against K

<u>Capital intensive</u> is when a larger <u>proportion</u> of K is used in a production process as against <u>labor</u>.

https://www.youtube.com/watch?v=M9XYrLNAxSM

The Difference between Production & Productivi



Exam reports confirm that it is important for students to make clear the distinction between production and productivity

- Production
 - Production is a measure of the value of the output of goods

2/11

The Difference between Production & Production

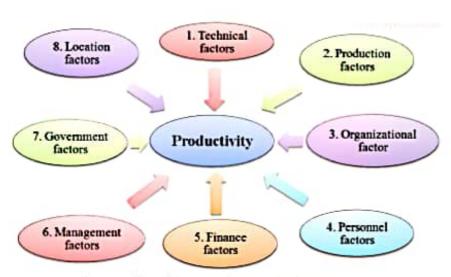
Exam reports confirm that it is important for students to make clear the distinction between production and productivity

Production

 Production is a measure of the value of the output of goods and services e.g. measured by national GDP or an index of production in specific industry such as car manufacturing

Productivity

- A measure of the efficiency of factors of production
- Measured by output per person employed
- Or by output per person hour
- An increase in production DOES NOT automatically mean an increase in productivity – it depends on how many factor inputs have been employed to supply the extra output



Factors that affect or influence Productivity.

Improvement in

- Tech
- SET
- MET
- RAW materials
- Quality and quantity
- Culture of the firm. Japanese KAIZEN continuous improvement in small firms.

Influences on Production:

Production can be increased by

- · Employing more factors of production.
- Improvement in the quality and quanntity of FOP.
- Favourable climate conditions with fertile soil etc.
- Discovery of new resources; e.g. Saudi Arabia discovered oil and enjoyed massive economic prosperity.
- Advancements in technology
- Improvement infrastructure
- Government policies.

8 MKS QUES EXTREMELY IMPORTANT CONCEPTS

3/11

:

Chapter 5

FIRMS COST, REVENUE AND OBJECTIVES

COST OF PRODUCTION

PROFITS are factor income for enterprise.



REVENUE DOES NOT MEAN PROFIT(technically incorrect)

In economics, the cost of production is defined as the expenditures incurred to obtain the factors of production such as labor, land, and capital, that are needed in the production process of a product. Rent, wages, and interest (bank loans)

Total cost (TC)

The sum of fixed and variable cost.

TC= FC+ VC

Fixed cost

FC does not vary with the level of output and remains fixed whether the business is producing anything or not FC has to be paid.

FC is incurred at zero level of output e.g rent, interest and insurance.IRI

Variable cost

Variable cost varies directly with the level of output. It is **not incurred at zero level** of output. E.g. are **cost of raw material**, **wages** these are zero when output is zero.

Average Total cost /Ac is U-shaped

The total cost divided by the level of output.

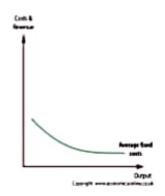
 Initially when variable fop (Lab) is combined with the fixed fop(land or K), output increases at an increasing rate.

2. This implies that AC falls till the best combination of fixed and variable fop is attained

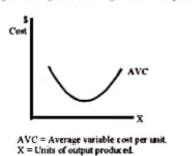
3.As output continues to increase, the combination between the fixed and variable fop becomes less favorable resulting in AC rising

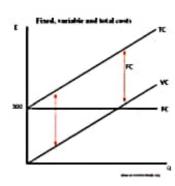
Short-Run Average Cost Curve for a Single Plant Size
Showing Decreasing then Increasing Variable Cost per Unit

3.As output continues to increase, the combination between the fixed and variab for becomes less favorable resulting in AC rising









FC is incurred at zero level of output and REMAINS constant

VC rises as output increases and is not incurred at 0 level of output

AC= FC+VC/ Output

The combination between the fixed and variable fop were favorable till 8 level of output AC falling

The combination between the fixed and variable fop were not favorable after the 8 level of output rising

- AC falls initially as the combination between the fixed and variable fop is efficient.
 due to increasing returns
- AC is at its optimum when the combination between the Fixed and variable fop are ideal
- AC rises as the combination between the fixed and variable fop is less efficient. Decreasing returns.

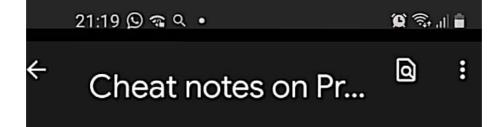
The combination between the fixed and variable fop were favorable till 8 level of output AC falling

The combination between the fixed and variable fop were not favorable after the 8 level of output rising

- AC falls initially as the combination between the fixed and variable fop is efficient.
 due to increasing returns
- AC is at its optimum when the combination between the Fixed and variable fop are ideal
- AC rises as the combination between the fixed and variable fop is less efficient. Decreasing

AFC= TFC divided by level of output AFC falls continuously as output increases. FC is spread clarger units of output; therefore FC per unit falls as output increases. Tuition Average Fixe cost

At 0 level TC=FC	of O					
Output	FC	VC	TC	AC	AFC=FC/output	AVC=VC/Ou
0	50	0	50	-	-	
1	50	50	100	100	50	50
2	50	78	128	64	25	39
3	50	98	148	49.3	16,6	32.66
4	50	112	162	40.5	12.5	28
5	50	130	180	36	10	26
6	50	150	200	33.3	8.33	25
7	50	175	225	32.14	7.14	25
8	50	204	254	31.75	6.25	25.5
9	50	242	292	32.44	5.55	26.8
10	50	300	350	35	5	30



REVENUE PROFIT/ Loss and breakeven

REVENUE.

- · It is the money a business receives for making sales.
- TR:total money received by a firm from selling what it produced.
- Average Revenue: PRICE charged by a firm when selling various units.

Formulas

: TR= Px Q

A firms sells 10 units @ price 5

TR = 5x 10= Rs.50

Demand for Apples					
Price per lb	Demand	Total Revenue			
0	6	0			
1	5	5			
2	4	8			
3	3	9			
4	2	8			
5	1	5			
6	0	0			

AR=TR/Output

TR= 50

O= 10

AR= 50/10= 5

AR=5

AR = P

- AR = TR/QTY
- TR=PxQ/Q

TC=TFC+ TVC

Cancel out the Qs AR=P VERY IMPORTANT 4 mks qp Qs
PROFIT=
TR-TC
Where TR= PxQ

<

Average Revenue = Total Revenue **Total Output Sold**

- AR=TR/QTY
- TR=PxQ/Q

Cancel out the Qs AR=P VERY IMPORTANT 4 mks ques MCQs

PROFIT=

TR-TC

Where TR = PxQ

TC=TFC+ TVC

Case 1= TR<TC= LOSS

Case 2= TR>TC= PROFIT

BREAK EVEN POINT level of output; is that level of output where there is no Profit o Loss. (NEW TO THE SYLLABUS)

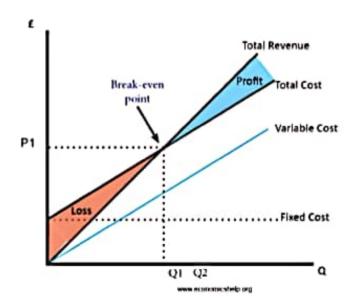
Profit margins can be increased by

- increase revenue PVQ (reduce price, improve quality and increase variety)
- Reduce cost by (reducing factor incomes(rent, wages, interest), finding alternate cheaper raw material).

Profits can be used for

- Investment in MET/expansion
- R&D
- Necessary for survival
- Reward to share holders etc

8/11



TC= FC + VC

TC = 10,000 + 0

TC=10,000

TC= FC @ ZERO LEVEL of output as there is no VC.

VC is zero @ zero level of level of output.

Alternate goals/ Objectives of a FIRM

- Profit Satisficing: some firms choose not to maximise profits; rather they w
 to maintain a satisfactory level of profits. It wants to keep its share holders hap
 e.g shareholders of the firm, government, workers, consumers etc.
- Growth of firm / increase in market share: the managers, directors, CEC may have growth of the firm as their main objective. So they try to maximize sales.

The salaries, bonus etc of the above mentioned is directly linked to the size of firms. Larger the firms they run higher is their package.

Profit maximization:

PROFIT= TR-TC

Where TR= PxQ

TC=FC+ VC

9/11

may have growth of the firm as their main objective. So they try to maximize sales.

The salaries, bonus etc of the above mentioned is directly linked to the size of firms. Larger the firms they run higher is their package.

Profit maximization:

PROFIT= TR-TC Where TR= PxQ TC=FC+ VC

Case 1= TR<TC= LOSS

Case 2= TR>TC= PROFIT

Profit maximization: it is the output of the firm there is the GREATEST

DIFFERENCE between total revenue and total cost.

Increase Revenue and reduce Costs=PROFIT

- Social welfare: Firms may want to make a positive contribution to the society
 There are many Non-profit firms that have social, community and charitable
 aims. These aims are called (CSR), this is a model that helps firms to be social
 responsible to itself and the society as a whole.
- Survival:new firms may take time to establish themselves and build up a larg customer base. Most important objective for newly formed firms.

10/11