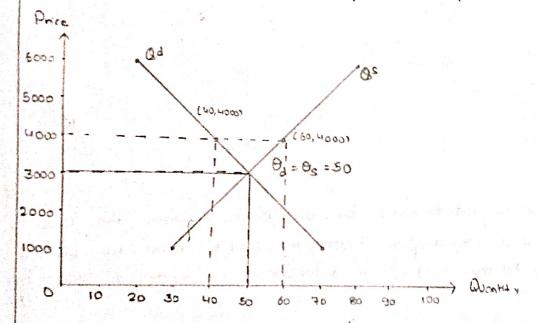
1. Suppose the market and demand schedules for bicroles fored by Atlas Crops ltd is as follows.

Price (Rs.)	Occupity Demonded/Day ('OONO)	Quantity Supplied / Day ('00 No)
1000	70	30
2000	60	40
3∞	50	50
4000	40	60
5000	30	70
6000	20	80

a) Drow the supply come and the demand curve for bicycles from the information given above. What is the equillibrium price and equillibrium quality of bicycles?



At equillibrium quality;

$$\Theta_d = \Theta_c$$

8. Equillibrium quality of bicycles = 50 Equillibrium purce of bicycles = 3000

b) If the price of bicycles were 4000, is there a surplus or a startage? How many units of surplus or shortage are there? Will there will be rise in

for Price = 4000

04 = 110

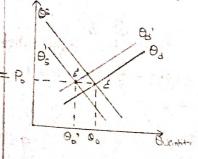
Os = 60

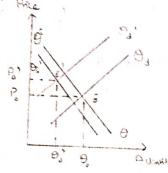
As Os7 Od

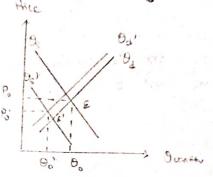
Therefore, As there bicicles supplied is greater than the demand for it. The a Condition of Surplus.

There is an extra of 20 biercles for 40 in demand at 4000 p. As supply is more, price of bicycles decreases.

C) Suppose the price of steel used to make bicycles frames increases and an environmental movement shifts business bicycles what will happen to the price and quantity demanded and supplied of bicraes? Analyze using appropriate demand - supply diagrams. Price







Po -> Easibrum prie Po' - Equilibrium prece after shifting

On a inital Equilibrium quantity Do a Espoliphion drawn offer stiffing

E - Favillibrich point often shifting As the price of steel used to make bicycles frames increases, the cost production increases resulting in decrease in profit made by sellens. So, sellers will writ till the cost of production decreases desulting in less supply. Simontaneously,

As demand of supply of bicycles increases, the demand come shifts right indicating more denoid, increasing equillibrium price

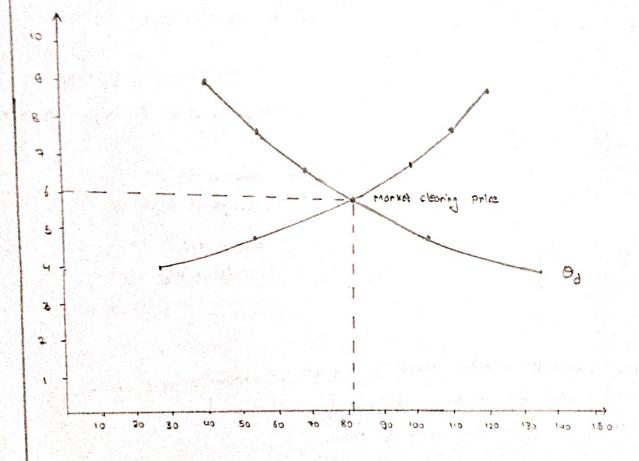
As both happen at same time, it take of supply decrease = take of demand increase, the equillibrium price is const,

else, if rate of supply decrease > state of depoly increase demand increase, equilibrium

date of supply decrease that of demand increase, equilibrium price increases An general, its ambiguous and coult be determined, while equilibrium quantity decreases in all case

The monket	for orange has the	following demand and supply schedled.
Price	Quantity demand (Kg)	Quantity Supplied (159)
5	135	26
5 (1) (2) (1) (1) (1) (1)	81	81 5.3
+ 3	88	98
9	53	100
7	39	121

Grouph the demand and supply curves. What is the market clairing price and quantity in the market?



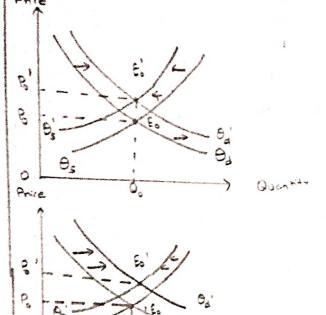
Market clearing price = Expillibrium point price = 6

Od = Os = 81 = Market cleaning quantity

The actual price in this market were above the market clearing price, what would drive the market towards the equilibrium?

If price is more then the market clearing price, in order to reach the equilibrium again, the demand of that article should increase, with electrose increase in supply at the same rate as demand increase meaching a new equillibrium for market at increased equilibrium price.

Consider the following events: Scientists oreveal that consumption of oranger decreases the risk of diabetes, and at the same time, formers use a new bertilizer that make aronger tree more productive. Explain with the help of suitable demand-supply diagram, what effect these changes have on demand, supply, apanity demanded appointly supplied and prices of aronge.



Po = Equillibrium price of orange after chift.

Eo = Equillibrium Point

Eo': hero Equillibrium point

 $\theta_0 = \epsilon_0$ illibrium quantity of orange $\theta_0' = \epsilon_0$ illibrium quantity of orange after shift

As demand res;

Pd Shifts to signt

As supply rea;

Ps shifts to teft

Brie 90 90 90 90 Quanty

for the scientists relects, there is a goma be more demand of oranges in manket by public, also as the efficiency of production of oranges increases, the supply of oranges also increases. Now,

Case 1:

Demond increase = Supply increase; Equillibrium price increases with Equilibrium (Quantity being some

Demand increase 7 Supply increase, Equillibrium price increases, with Equillibrium Quantity of orange in market increases

Demand increase < Supply increase; Equilibrium price increases, with Equilibrium Quantil

Orange Quantity in market decrease

Ayers in the ice-cream market demand 205 cops of icecream when price is zero and decrease the parchase of ke-cream by 2 cops for every one unit increase in price. Supplier will only start to supply ice-cream up when a supply by 3 units (3 cops of ice-cream) for every 1 coniti Rs. increase in price. Write down the equation of the demand and supply functions in the form $\theta = f(p)$.

Price Demand (Ice cream) Suptr

O 205
175 D

On every 2 cops, price increases by 1 unt.

 $\theta = f(p) = a + b p$ \$\delta = \alpha = 205 \quad \alpha = -2
\$\delta \theta = 205 - 2p

for every unit price Tes, Supply increase by 3 more increase $\Theta_8 = d + cP$ S d = 4 c = 3

Os=-45+3P

find out the equillibrium price and corresponding quantity demanded and supplied in the manket . Use both graph and algebric equations and answer the question.

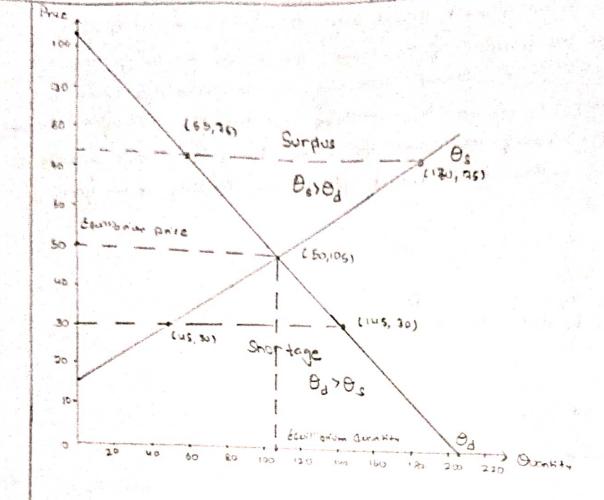
for equillibrium quantity.

 $\theta_d = \theta_s$

⇒ 205-2P =-45+3P

>> 180 220 = 50 250 = 50

Equillibrium quantity = 205 - 100 = 105 205 - 100 = 105



Cove	Price	Demond Q	Entity Supply
A	0	205	_
B	15	175	0
Ŧ	30	lus	45
Ø	us	lis	90
e	60	85	135
	75	55	170
	90	25	205
	102.5	0	

Analyze the monket if the actual price is Rs 75 and Rs 30 perup

when price of iceream is Rs 30, the demand of iceream is more than supply

hence shortage and in the manket.

While when price is 18575, the demand is less than Supply, Hence there is a Surplus of ice aream in the market

A form produce , say wheat, has the following demand and supply functions QD=1700-50P and $Q^c=300+20P$, where $Q^D(MT)$, $Q^c(MT)$ and P(Rs) refer to quantity demanded, quantity supplied and price of the product find the market alsoning price.

At market cleaning price, $\theta D = \theta c$

02+006 = 905- OOFI (=

90F = 00H1 (=

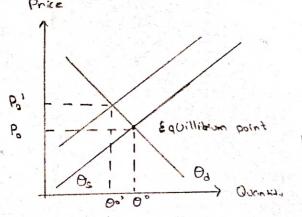
=) P = 20 = market cleaning price

and 0

b) If actual price of the product is RSIO, Chaltze the market situation.

As Product Price is lower than the market cleaning price, we can take it a case of product surplus, with demand decreasing or being constant with supply increasing in the market, secreting in price decrease.

c) Agricultural scientists innvotes a new variety of seed which increases the Productivity of wheat . Using the supply-demand model graphically, analyze the affect of introduction of new seed on demand, supply, price and quantity demanded and supply of wheat.



Supply increases Shifting the curve to

Po→ Equilibrium price

Equillibrium point

Po'→ Equillibrium price often shifting

Oo→ Equillibrium quantity

Oom Equillibrium quantity

Oom Equillibrium quantity

As production of wheat increases, the supply of wheat increases in market. With its demand being constant in market and supply increases, there is gonna be a case of surplus which leads to decrease in the price of wheat.