Answer to the question no: 01

- 1. When individuals make decisions, they face frade offs among alternative goals.
- 2. The cost of any action is measured in terms of foregone opportunities.
- 3. Rational people mave decisions by comparing marginal costs and marginal benefits.
- 4. People change their behavior in response to the incentives they face.
- 5. Trade can be mutually beneficial.
- 6. Markels are usually a good way of coordinating Inade among people.
- 7. Government can patentially into prove market outcomes it there is some market tailure at it the market outcome in inequifable.

- living standards. Productivity
- 9. Money growth is the
- Society faces a short-roun treade-off inflation and unemployment.

Amswer to the question on: 02

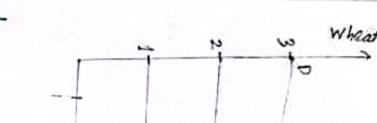
+ income diagnam:

Goods and sorvices

Households Wages, rent, dividends Factors for production consumer extendition

The circular flow of income is a model of the economy in which the major exchanges of money and goods exchanged in a closed eineral Correspond in Value, but rown in the apposite sorvices, etc. between economic egents. The sows are represented as thouse at money, goods and maero economics. basis of modiomal accounts and home hence of direction. The circular flow analysis in the

Wheat POF: Amswer to the question no: 03



b. From the given information,

Rice

Change in the quantity of rice from point B to

Again, change in the quantity of wheat from

the opportunity cast of Wheat

rice from point 8 to c is 4

C. The E Point of the PPF of the given information in an inefficient point.

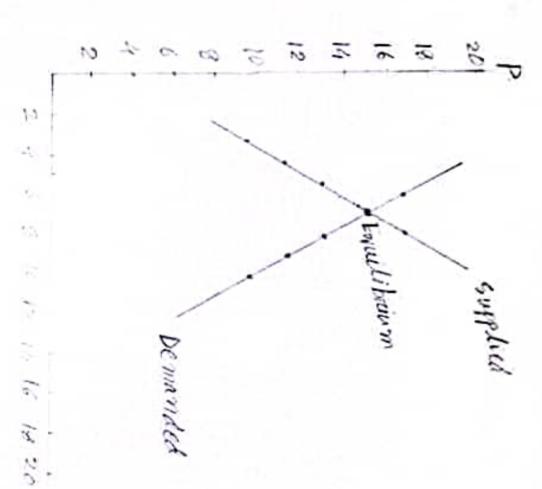
Produce one good on that point. Because, we do not need to give up other good to Any point inside the PPF is an inequident point.

d. The B and c of the PPF of the given information is an efficient point.

Point. Because, we have to siveup one good to produce another good on that paint. Kny point on the PAF is considered as an efficient

e. The F point of the figure of PAF of the given information is an unattainable point.

as an unattainable point. Because it is impossible She AF. for an economy to produce any good outside Any point which is outside the PAF is considered



4 The equilibrium quartity is 7 1/4/ year. price in 164/14 and equilibrium

R

•

is i. When price 0= 20 10 \$12 and as=5

Excess demands : 8>05 = 9-9 =4 million Kg/you

i. When price is \$18

0d=16 and 05=8

.: Excess · as >ad supply = 8-6=2 million Hybean

CS CamScanner

quantity will increase. god of bey. As a rout, the demand beg will increase as shift right. So, equilibrium goes up, the chieven is substitute.

Answer to the question no: 05

- 12 0	2		M	D	0	B	A	
20 20	1	1-1	P=1	P=2	P = 3	P=4	P=5	Ruce
	•		100	80	60	40	20	Quantity demand Oda= 120-20Pa
		N	20	40	60	80	100	Quantity supple Qs4 = 2094

C. Given. Qx=120-20P Os=20P

We know of = 02 = 0 +

Here, 120-201= 201

=> 2100+= 120

: * q : 3

un. Q = 120 - 20x3

= 120-60

2 60

Emilibrium price is 3

d. Given, price = 2

From the demand and supply shedule

Qu= 80 , Qs=40

. The market situation is at

e. Given. price = 3

from the demand and supply schoold.

The marked economy is al

f. Griven. price = 4

From the demand and supply school welle.

al < as

. The market situation is swiplus.

Amswer to the question mo: 06

that good. good responds to a change in the price of of how much the numbity demanded of a Price elasticity of demand is a measure

Price elasticity of demand= Pencentage charge in Percentage change in price.

· EDAPA >1; clastic demand;

· EDXPX < 1; inclusive demund, EDXPX = -EDRAX=1; Unit clastic deauns = 110 Da 02-01 ×100 Pa-Pi B 0 × 100

b. Price elasticity of supply is a measure of good. responds to a charge in the price of that from much the quantity supplied of a good 1.005

Esxpx=

YDP

= Ap

Das as

C. Imerme elassions much the quantity demanded of a good reexponds to a change in consumer's income.

$$E_{D\times I} = \frac{\% Do_{X}}{\% aI}$$

$$\Rightarrow E_{D\times I} = \frac{\partial o_{X}}{\partial x} / \frac{aI}{I}$$

$$\Rightarrow E_{DM} = \frac{a\sigma_x}{a_x} / \frac{\pi}{1}$$

$$\Rightarrow E_{DM} = \frac{a\sigma_x}{a_1} \cdot \frac{1}{\sigma_x}$$

o FOI (1) O nowmad and

Answer to the nuestion no: 07

Point R to point B:

$$PED = \frac{1/\Omega \Omega}{1/\Omega P} = \frac{\frac{62-6}{6}}{\frac{62-6}{6}} \times 100$$
 $\frac{180-200}{\frac{200}{10} \times 100}$
 $\frac{18-10}{10} \times 100$
 $\frac{18-10}{10} \times 100$
 $\frac{1}{10} = 10$

.. 5 (1; so it is inclustic.

b. Point 8 to Point A:

$$PED = \frac{1.00}{1.00} = \frac{\frac{0.2-0.1}{0.2-0.1} \times 100}{\frac{0.2-0.1}{0.0} \times 100} = \frac{10-15}{0.2-100} \times 100$$

$$= \frac{\frac{2.00-150}{150} \times 100}{15} = \frac{0.2-150}{0.2-150} \times 100$$

$$= \frac{33.93\%}{-33.33\%} = \frac{0.2-200}{0.2-200}$$

PED = 1; so it is unit obstic demand.

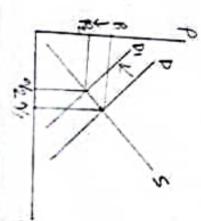
C. Midpoint method: $\frac{a_2-a_1}{a_2-a_1}$ $\frac{a_2-a_1}{a_2-a_1}$ $\frac{a_2-a_1}{a_2-a_1}$

0.7 <1; So it is industic

Answer to the nuestion no: 08

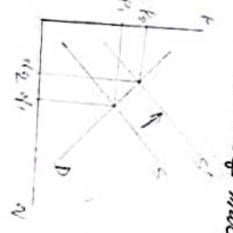
a. The grain is an input for beef. If the price decrease and equilibrium quantity, So, Supply curve will shift downward along demand conve. so evilibrium price will of grain falls, then supply of beef will increase will increase in the market say "

b. If the price of chicken falls the demand of bey market. Price and quantity both will decise in chicken. So, demond cueve will ships in left along supply curve. So equilibrium bey will decroes as beef is substitute of



8.c. According to the study that indicates call increase. So demand curve will Price and Nuantily both will rise increase. so demand beg will bell is good for health the popularing of beef will skipt in right so equilibrium 3. 1/2

equilibroum quantify will fell in the beef marker beef supply will decrease. So, Supply curve will ship If number of beef producing firms falls. Then lest ward. So, equilibrium price will rise and



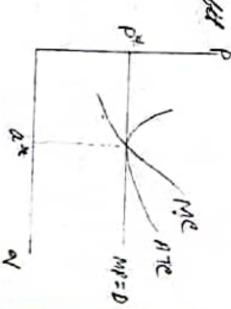
à	ø	71	6	n	1	W	10	1	0	Ø
2 2 2 2 2 2	53	33	33	33	33	5.5	55	53	55	TI C
	425	315	225	155	105	35	33	30	:	10
	480	370	280	210	160	130	110	85	53	Te
	110	00	70	50	30	20	25	30	!	MC
The state of the s	60	52.8	46.6	42	40	43.3	5.5	85	1	AC
	6.87	7.85	9.16	=	13.7	18.3	27.5	5.5	H	AFC
	53.12	3	37.5	31	26.25	25	27.5	08		

greator than aAC, AC rises. then AC, AC falls and When MC is get marginal - average quantities. When Mc is less is the same as that between any other The relationship between the Mc and Ac

start rising reapidly. Hence, due to the operation diminishing returns. The Average casts will of Low of variable proportions the short would lead to disceptionics of production and Then as well as long-run Avorage cost curve in "U" Shaped. would be userved beyond their capacity. This voriable factors the fixed factors live machines that point by increasing the quantities of It any firm tries to reaise output offer

Answer to the question no: 10

- a. The proporties of perfectly competitive
- . Large number of buyers and sellers.
- · Sellers offer a standardized product
- · Porfect information.
- e sellers can easily enter into on exit from market
- · Each buys on sells only a tiny fracting of the total quantity in the mouved.
- · All firms are price dowers they commet control the market price of their product.
- b. NOTE mad praget: Here: ATC curve intoused at P = ATC. SO, it's normal profit ? equilibrium point that means



Positive profit:

Here, P*) ATC. SO THERE (P-ATE) X Q*

is positive profit

economic low: Hore, px CATC. SO

The area (P-ATC) × a * is economic loss.

MP=P

C.

H perfectly competitive firm east canest stop
Producing only when revenue just cove variable
Cost on when losses are equal to fixed east
But in Short-run maryer supply curve is
Obtained from the aggregation of individual
timms supply curve. Summing quantities
At output supplied by all firms in market
at each price. Fixed inputs of each sirm

and number officens in the market are constant. So, that firm will produce even if it made losses in the short-Run

The firm have to minimise its lauses. So, it will produce again even if losses.

A parfectly competitive firms

short run supply eurve is shad portion

of me eurve which is ovobe Ave

curve of a firm in perfect

competition is precisely its Me

curve for all rates of output

envual to ore greater than

the rate of output associated

with minimum average variable

cost.

12

Principles of Economics: Assignment 1

Syed Afroz Keramat

- 1. Discuss briefly the ten principles of Economics.
- 2. Consider the following information:

	A	В	С	D
Wheat	0	1	2	3
Rice	15	12	8	0

- a.)Draw the PPF from the above following data.
- b.) What is the opportunity cost of Wheat in terms of rice from point B to point C?
- c) Indicate an inefficient point. Why those points inside the PPF are inefficient?
- d) Indicate an efficient point. Why points on the PPF are efficient?
- e) Indicate an unattainable point. Explain why points outside the frontier are unattainable.
- 3. The following is the hypothetical supply and demand schedule for butter:

Price (Tk.)	Quantity demanded	Quantity Supplied
	(Kg)	(Kg)
14	100	20
18	80	40
22	60	60
26	40	80
30	20	100

- a) Plot the demand and supply curve for butter.
- Find the equilibrium price and quantity of butter.
- c) How much is the shortage or surplus when price is Tk. 30?
- d) How much is the shortage or surplus when price is Tk. 18?
- e) What will happen to equilibrium price and quantity if incomes of the consumers of butter are increased?
- 4. The demand function for commodity X is Qd_x= 120-20P_x and supply function is Qs_x = 20P_x. Assume the values of p are 1, 2, 3, 4, and 5. On the basis of this information answer the following questions
 - a) Find the market demand and supply schedule?
 - b) Draw an appropriate figure on the basis of the market demand and supply schedule?
 - c) Show the Equilibrium point mathematically?

- e) What is the market situation (amount of Surplus or shortage) When Price is 3?
 - f) What is the market situation (amount of Surplus or shortage) When Price is 4?
- 5. Discuss the following concepts properly along with the formula for calculation.
 - A) Price Elasticity of Demand
 - B) Price Elasticity of Supply
 - C) Income Elasticity of Demand
 - D) Cross-Price Elasticity of Demand
- Answer the following questions on the basis of the following table? Explain the value of the price elasticity of demand.

Point	Price	Quantity Demand
A	10	200
В	15	150

- a) Calculate price elasticity of Demand using normal method when price moves from point A to Point B?
- b) Calculate price elasticity of Demand using normal method when price moves from point B to Point A?
- c) Calculate price elasticity of Demand using Mid Point method? Also explain the value you get.
- 7. Using a supply and demand graph and assuming competitive markets, show and explain the effect on equilibrium price and quantity of the following:
 - (a) An increase of the price of beef on the market for chicken.
 - (b) A decrease of the price of lemon on the market for tea.
 - (c) An increase of the price of milk and sugar on the market for ice cream cones.
 - (d) An Incidence of bird flu on the market for chicken.