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Engineering Economics

Total Marks: 20 marks, Time allocated: 45 minutes

Instructions: Read the question properly and answer as per marks allocated.

You are expected to write descriptively. All the best.

Section A: Each question is of max 2 marks

1. What are the 3 important Economic questions? Explain equity and efficiency with an example in the Indian context. (CO1)

1. What to produce? , How to produced? Whom to

efficiency - supplyin make lost use of cell scars recources we resources equally.

2. The field of Economics is divided into 2 sub fields. State them below with atleast

2 fields of economics are micro ecomomics & macro .eco.

Macro economics. * micro-economics 1. It is the study of economy at 1. This is the study of

individual level such as household economy at national level

2. It addresses issues that 2. This is concerned about

indivisual level 1-e concern about a nation as a whole.

B. Exeample managing indivisuals 3. exe. it try to resolved income, economy at household level anemployement, inflation etc

3. In the super luxury cars, describe the relationship between price and quantity demanded. What kind of product is a luxury car? (CO3)

The price of quantity demanded is shown in

graph, by the law of quantity demand,

1 et as the price increases there is a

decrease in quantity demanded.

luxury car is a branded product i.e limited no of firms will have key resources laccess to produce

of (monopolistic).

e use the pormal demand
so the Juseury car will follow the normal demand
coave in which the parce to
numb quantity of con will decrease
4. Using 'ice cream' as a product, build a supply further or supply . (CO1, CO2, CO3)
3 determinants of supply - input, expectation, severe initial supply curve is D input (D1): - If the price of sugar increase then the supply curve will shift to D1 (i.e left)
2) expectation: - (f seller stores the todays stock of icercame for future todays stock of icercame for future) 3) no of sellers are increase then supply will increase of 5. Describe the concept of 'Invisible hand' in attaining equilibrium in a Free Market (a. P.D.3) Economy. (CO1)
the economical situation attains the equilibrium after a cortain period of time in market that is if the me is above or below equilibrium point the factors in economy are such that this price will comes to equilibrium after some time this is what we called invisible hand. 6. What is the relationship between Marginal Product and Average Product? (CO1, CO2, CO3)
Marginal product is the increase in output when addition unit at input increases
somerage product is total no of smoduet per auantity of input.

Section B: Each question carries 4 marks. (CO1, CO2)

- 1. Mona has just graduated from a well known technical College in Pune. She is a fitness enthusiast and has decided to forego placement to set up a juice bar-FRESH-O. Having studied engineering economics, she knows that costing is an important part of setting up a successful business. She has calculated the following table of costs for each unit (Glass) of juice she sells.
 - Calculate the AVC, ATC and MC.
 - b. Using your understanding of costs and their relationship, how many units of juice should Mona produce to minimize costs?

Quantity Q	Total Variable Cost (TVC)	Total Cost (TC) Arced	Average Variable cost	Average cost	Marginal Cost		TC
0	0	20	-	_			26
1	30	20	30 30 50	≥ 50	*	30	
2	50		25 25	bo 35	6	20	50
3	60	20	20 20	EEE 266	-	10	80
4	70		A52 13.5	\$ 225	9	(6	90
5	90	20	16 18	5 22	2	16	110
6	(20	20	2020	23.33	0	30	140



2. Answer the following: (CO1, CO2, CO3)

Describe the following:

- Market structure for each- fertilizers, railway ticket booking services, carbonated beverages in India.
- 2. With each of the above product, describe how firms making pricing decisions.

I. Railway ticket booking:- monopoly cas hosted by government componented beverages in India: monopolistic (as many box with olimiter but not identificated:

Product)

Product)

aleliering as same goods)

for Railway Haket booking The price making decision will be pas MC = MF i.e price will be grater than marginal revenue.

for carbonated beverages: -similar as monopoly
for sextilizers: - price = MC = MR

course correspond to where Mc & MR intersect

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MIS-112003012 Name- Projekta Prodip

Engineering Economics T1 (Set 2)

Total Marks: 20 marks, Time allocated: 45 minutes

Short answer type

Instructions: Read the question properly and answer as per marks allocated.

You are expected to write descriptively. All the best.

Section A: Each question is of max 2 marks

1. What are the 3 fundamental questions of Economics? (CO1)

What to produce?

2. State 3 differences between Micro Economics and Macro Economics (CO1)

State 3 differences between Micro Econo	Mich Economics
Macro economics	Million Des Jarde with
with many factors as	1. Mich economics deals with single factor inviduals
2- factors considering - GEPP, NI, tax, unemploy.	2. factors considering indivitude what to buy, what to sell
3. scale - country's economy world's economy	3. Scale- Household, firm, indivituals, etc.

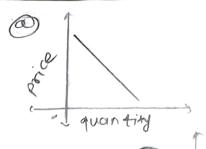
3. What is the difference between need, want and demand. (CO3)

The goods or service without which we can not eg. water, food. The addition unit to needs which gives pleasure to useg food is need, tasty food is want. Demand is something which is surplus to need of eq. we want food to which is particularly back baked with this method or particular bound is need, I want shirt is want, and eg of shirt of Geneci brand is demand

(CO1, CO2, CO3) If production of milk is abundant enough, i.e. quantity of milk provided is increase, and price decreases. It milk is not in enough quantity, dem price increases. If wants reduce de viege in price of milk, that milk used to make sus products such as mile powder, ghee sete. It may happens
5. Role of government in a mixed economy (CO1) that production of that products

of other county. According to Principle of economy, invisible hands works only it the government (govt.) of that country is capable of control on . A Govt can make better trade off. using policies, subsidies, govt can control efficiery equity in economy. 6. Explain Trade off with an example from your daily life (CO1, CO2, CO3) Hott welike Trade off- is if we want something, need to something up which we also like. eg. As I am college student. I am going college insteade of wasting time in watching movies or playing video games. Also I pt pay college fees insteade of wasting on movie tickets

Describe the relationship between quantity and price supplied of the product milk.



Section B: Each question carries 4 marks. (CO1, CO2)

1. Writes short answers to:

a. the relationship of quantity demanded with price of gold

b. The relationship between quantity demanded and income for food items like rice, wheat and vegetables

the price and demand, all other items equal, the price and demand are inversly proportional. As gold found lesser in quantity, so it has low supply. As demand of gold increases, price decreases. Because gold is accorde in nature, marginal changes affects on it.

If income for food items increases the quantity demanded for that also increases.

As income increases, producers are inteded to produce more and make more profit of out of that so, supply for that items atomo automatically increased. Also demand increased.

- 2. Answer the following: (CO1, CO2, CO3)
 - a. What is utility?
 - b. Why is the price of water so less despite high utility. Why is the price of jewellery diamonds so high despite low functional utility.
- a. Utility The usefuless of product to people, society, firmetrin given condition to product some functionalities.
- high utility. But quantity of water present is high ie. Water present in abundant quantity. If we remove one cup of water from that quantity tity makes no change. That's why despite of high utility price of water is so less.

The price of jewellery, diamonds are so high despite of low functional utility because jewelly (gold, silver) of diamonds are in less quantity in nature. If we remove a cup of gold out of it makes significant changes.