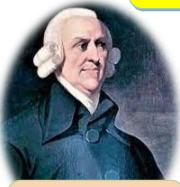
VIVEKANADA VIDYALAYA MATRIC HR SEC SCHOOL



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XI STANDARD



ADAM SMITH FATHER OF ECONOMICS



IF YOU FAIL NEVER GIVE UP BECAUSEFAIL MEANS FIRST

ECONOMICS MATERIAL

(BASED ON NEW EDITION 2022-23)

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முகவுரை

மாணவ நண்பர்களுக்கு,

பொருளியியல் பாடத்தில் நல்ல மதிப்பெண்களை பெற வேண்டும் என்ற நோக்கத்தில் எளிமையான முறையில் படிப்பதற்க்கு வசதியாக இந்த **material** யை தொகுத்துள்ளேன். எனது பாணியில் எனது மாணவர்களுக்கு ஏற்றவாறு தயார் செய்த இந்த தொகுப்பை அனைத்து மாணவர்களும் பயன்பெற வேண்டும் என்ற நோக்கத்திலேயே வெளியிட்டுள்ளேன். எனது இந்த தொகுப்பில் ஏதேனும் பிழைகள் குறைகள் இருந்தால் சரிசெய்து கொள்ளவும்.

தற்பொழுது அரசு வெளியிட்டுள்ள புதிய பாட திட்ட தொகுப்பின் அடிப்படையில் இந்த வினா விடை தொகுப்பை என்னால் இயன்ற அளவிற்க்கு மிக எளிமையாக உருவாக்கியுள்ளேன். மாணவ நண்பா்களே!! நேரத்தை சரியாக பயன்படுத்தி கொள்ளுங்கள். சரியான நேரத்தில் சரியான முறையில் படித்து வெற்றி பெற்று அடுத்த கட்ட நிலைக்கு செல்ல வேண்டிய இறுதி நிலையில் உள்ளாய். நேரத்தை வீணாக்காதே! அடுத்து என்ன செய்ய போகிறாய் என்பதை முதலில் தீா்மானி. மதிப்பெண்களை பெறுவதிலேயே கவனத்தை வை.

முயன்றால் முடியாதது எதுவுமில்லை. கடினமாக தான் இருக்கும். கஷ்டப்பட்டு படித்தால் நல்ல முன்னேற்றத்தை அடைவாய்.

பள்ளி பருவத்தில் நீ பெறும் வெற்றியே உன் வாழ்க்கை முழுவதையும் தீர்மானிக்க போகிறது என்பதை நன்றாக கவனம் கொள். தினமும் காலையில் படிப்பதற்க்கு முன் உன் இலக்கு என்ன என்பதை இரு நிமிடம் யோசித்து பார். நீ செல்வது சரியான பாதையா என்று சிந்தி!!!! நல்ல பாதையே நல்ல முடிவை தரும். நல்ல மதிப்பெண்களை பெறுவதே உன் நோக்கமாக இருக்கட்டும். அதுவே உன் வாழ்க்கை என்னும் பாதைக்கு நல்வழிகாட்டும். பள்ளி வாழ்க்கையின் கடைசி நிலையில் உள்ளாய்!!!! இங்கு நீ பெறும் மதிப்பெண்களே உன் அடுத்த கட்ட பாதையை உருவாக்க போகின்றன என்பதை நினைவில் எப்பொழுதும் வை.

உன் பெற்றோரின் உழைப்பையும் சிந்தித்துப் பார். பிறகு படிக்க ஆரம்பி. கவனம் சிதநாமல் படிப்பில் கவனத்தை செலுத்துவாய். பிறகு நீயாகவே முயற்சி செய்து நல்ல மதிப்பெண்களையும் பெறுவாய்.

உங்களுக்காக நாங்கள்!!!!

உன் வெற்றியே எங்கள் வெற்றி!!!!!

உங்கள் வெற்றியில் பெருமைப்பாட நாங்களும் காத்திருக்கிறோம்!!!!!!!

WISH YOU ALL THE BEST FOR YOUR EXAMINATION

) . **இசு)** ஆசிரியர்

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CHAPTER 1

INTRODUCTION TO MICRO ECONOMICS

I. MULTIPLE CHOI	CE QUESTIONS:					
1. 'Economics is a study	y of mankind in the ordin	nary business of life' -	It is the statement of			
a. Adam Smith	b. Lionel Robbins	c. Alfred Marshall	d. Samuelson			
2. The basic problem st	tudied in Economics is					
a. Unlimited wants	b. Unlimited means	c. Scarcity	d. Strategy to meet all our			
wants						
3. Microeconomics is co	oncerned with					
a. The economy as	a whole	b. Dif	ferent sectors of an economy			
c. The study of in	dividual economic units b	behavior d. The i	nteractions within the entire			
economy						
4. Which of the following	ng is a microeconomics st	eatement?				
a. The real domest	ic output increased by 2.5]	percent last year.				
b. Unemployment	was 9.8 percent of the labor	our force last year.				
c. The price of wh	neat determines its deman	nd				
d. The general pric	ee level increased by 4 perc	eent last year.				
5. Find the odd one out	: 1					
a. "An inquiry into	the nature and the causes	of the Wealth of Natio	ns''			
b. "Principles of E	b. "Principles of Economics"					
c. "Nature and Significance of Economic Science"						
d. "Ceteris paribı	18"					
6. The equilibrium price	ee is the price at which					
a. Everything is so	a. Everything is sold b. Buyers spend their money					
c. Quantity demand	c. Quantity demanded equals quantity supplied d. Excess demand is zero					
7. Author of "An Inquiry into the Nature and Causes of Wealth of Nations"						
a. Alfred Marshall	b. Adam Smit	th c. Lionel Rol	obins d. Paul A Samuelson			
8. "Economics studies l	human behavior as a rela	tionship between end	ls and scarce means which have			
alternative uses"	is the definition of econor	nics of				
a. Lionel Robbins	b. Adam Smit	th c. Alfred Mar	rshall d. Paul A Samuelson			
9. Who is the Father of	Economics?					
a. Max Muller	b. Adam Smi	ith c. Karl Marx	d. Paul A Samuelson			
10. "Economics is a scient	ence" The basis of this sta	atement is				
a. Relation betwee	n cause and effect					
b. Use of deductive	e method and inductive me	ethod for the formation	s of laws			

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c. Experiments d. All of the above 11. Utility means a. Equilibrium point at which demand and supply are equal b. Want-satisfying capacity of goods and services c. Total value of commodity d. Desire for goods and services 12. A market is a. Only a place to buy things b. Only a place to sell things c. Only a place where prices adjust d. A system where persons buy and sell goods directly or indirectly 13. Which one of the following is not a point in the Welfare Definition of Economics? a. Study of an ordinary man b. Economics does not focus on wealth alone. c. Economics is the study of material welfare d. Economics deals with unlimited wants and limited means 14. Growth definition takes into account a. The problem of choice in the dynamic framework of Economics b. The problem of unlimited means in relation to wants c. The production and distribution of wealth d. The material welfare of human beings 15. Which theory is generally included under micro economics? a. Price Theory b. Income Theory c. Employment Theory d. Trade Theory 16. have exchange value and their ownership rights can be established and exchanged c. Markets a. Goods b. Services d. Revenue 17. Identify the correct characteristics of utility a. It is equivalent to 'usefulness' b. It has moral significance c. It is same as pleasure d. It depends upon consumer's mental attitude 18. Who has given scarcity definition of economics?

a. Adam Smith

b. Marshall

c. Robbins

d. Robertson

19. The process of reasoning from particular to general is

a. Deductive method

b. Inductive method c. Positive economics d.

Normative

economics

20. Total revenue is equal to total output sold multiplied by

a. Price

b. Total cost

c. Marginal revenue

d. Marginal cost

II. ANSWER THE FOLLOWING QUESTIONS IN ONE OR TWO SENTENCES.

21. What is meant by Economics?

- ❖ The term 'Economics' means 'management of households'.
- The 'Political Economy', is renamed as 'Economics'.

22. Define microeconomics.

• Micro Economics is the study of the economic actions of individual units say households, firms or industries

23. What are goods?

- ❖ Goods are also called 'products', 'commodities', 'things' etc.
- Goods and services satisfies human wants.

24. Distinguish goods from services.

S.No	Goods	Service
1	Goods are produced	Service are performed
2	It's are tangible	It's are intangible

25. Name any two types of utility.

- Time utility
- Place utility
- Form utility
- Service utility

26. Define positive economics.

- An increase in money supply implies a price-rise in an economy.
- As the irrigation facilities and application of chemical fertilizers expand, the production of food-grains increases.

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27. Give the meaning of deductive Method

- ➤ It is also named as analytical or abstract method.
- > It consists in deriving conclusions from general truths; it takes few general principles and applies them to draw conclusions.

III. ANSWER THE FOLLOWING QUESTIONS IN ONE PARAGRAPH.

28. Explain the scarcity definition of Economics and assess it.

"Economics is a science which studies human behavior as a relationship between ends and scarce means which have alternative uses".

- Lionel Robbins

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Features:

- A Ends refer to human wants.
- * Resources or means that go to satisfy the unlimited human wants.

29. What are the crucial decisions involved in 'what to produce?'

- * Whether to produce more of food, clothing and housing or to have more luxury goods
- * Whether to have more agricultural goods or to have industrial goods and services
- ♣ Whether to have more consumption goods or to have investment goods
- ♣ Whether to spend more on basic education or higher education

30. Explain different types of economic activities.

- **♦** Consumption: Human wants coming under consumption is the starting point of economic activity.
- ♠ **Production:** Production is the process of transformation of inputs into output.
- **Exchange:** Human activities which are performed in exchange for money.
- ▲ **Distribution:** the produced wealth has to be distributed

31. What are the different features of services?

i). Intangible:

- ❖ Intangible things are not physical objects but exist in connection to other things.
- ❖ Example: Brand Image, Goodwill

ii). Heterogeneous:

- A single type service yields multiple experiences.
- * Example: Music, Consulting Physicians.

iii). Perishable:

- * Services cannot be stored as inventories like assets.
- * Example: Cricket-match.

32. What are the important features of utility?

- Utility is psychological
- Utility is not equivalent to usefulness.
- Utility is not the same as pleasure
- Utility is personal and relative.

33. Distinguish between microeconomics and macroeconomics.

S.no	Micro Economics	Macro Economics.
1	Micro means small	Macro means large
2	It covers value theory and economic welfare	It is the study of aggregates national output
3	Price theory	Income theory

34. Compare positive economics and normative economics.

S.no	Positive Economics	Normative Economics.
1	Positive science deals with what it is	It's concerned with what ought to be.
2	It analyses problem on the basis of	Here the conclusions and results are not
	facts and examines its causes.	based on facts.
3	It would be looked into why and how?	It would be seen whether goods or bad.

IV. ANSWER THE FOLLOWING QUESTIONS IN ABOUT A PAGE

35. Compare and contrast various definitions of Economics.

Basis	Wealth 💡	Welfare	Scarcity	Growth
	Definition	Definition	definition	Definition
Author	Adam Smith	Alfrad Marshal	Lionel Robbins	Paul Samuelson
Year	1776	1890	1932	1948
Definitio	Economics as the science of wealth	It is a study of mankind in the ordinary business of life	"It is a science which studies human behavior as a relationship between ends and scarce means which have alternative uses".	The study of how men and society choose, with or without the use of money, to employ scarce productive resources to produce various commodities over time, and distribute them for consumption.
Key concept	Man is guided and led by an invisible hand.	Man promotes primarily welfare and not wealth.	Human beings unlimited wants	He makes his definition Dynamic

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	It means that each person works for his own good.	It contains the concern of ordinary people.	Resources are limited	It covers production distribution and consumption
Criticism	It is a dismal	Does not	Does not make any	Samuelsons definition is appli
	science	consider	distinction between	also in a barter economy.
		immaterial things	goods conductive	
			human welfare and	
			goods that are not.	

36. Explain various Steps of Deductive and Inductive methods.

i). Steps of Deductive method:

- **Step 1:** The analyst must have a clear and precise idea of the problem to be inquired into.
- **Step 2:** The analyst clearly defines the technical terms used in the analysis. Further, assumptions of the theory are to be precise.
- **Step 3:** Deduce hypothesis from the assumptions taken.
- **Step 4:** Hypotheses should be verified through direct observation of events in the real world and through statistical methods.

ii). Steps of Inductive methods:

- **Step 1:** Data are collected about a certain economic phenomenon. These are systematically arranged and the general conclusions are drawn from them.
- **Step 2:** By observing the data, conclusions are easily drawn.
- **Step 3:** Generalization of the data and then Hypothesis Formulation
- **Step 4:** Verification of the hypothesis (eg.Engel's law)

37. Elaborate the nature and scope of Economics.

Nature:

- ▲ A Law expresses a causal relation between two or more than two phenomena.
- ▲ Marshall states that the Economic laws are statement of tendencies, the laws function with cause and effect.
- ▲ Economic laws are not as precise and certain.
- ♠ Economic laws are not inviolable
- ▲ The use of the assumption other things remaining the same.

Scope:

- ❖ All human activities related to wealth constitute the subject matter of economics.
- * Production consumption and capital formation are called the basic economic activities.
- ❖ The flow chart gives the scope of economics.

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❖ Human activities not related to wealth are not treated in economics.

38. Explain basic problems of the economy with the help of production

possibility curve.

Meaning:

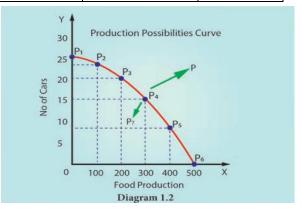
Production possibility curve shows the menu of choice along which a society can choose to substitute

one good for another.

A	4 •
Assum	nfions:
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- The time period does not change
- Techniques of production are fixed
- There is full employment in the economy
- Resource of production is fully mobile.

Production	Quantity of	No of car
possibilities	food production	production
I	0	25
II	100	23
III	200	20
IV	300	15
V	400	8
VI	500	0



Explanation:

- The quantity of food is shown on x-axis and the number of cars is shown on y-axix.
- The different six production possibilities are being shown as P1, P2, P3, P4, P5, P6.
- A maximum of 500 tons of food can be produced given the existing technology.
- All resources are instead used for producing cars, 25 cars can be produced.
- ♣ In between these two existences possibilities exist.

CHAPTER 2

CONSUMPTION ANALYSIS

e				
I. Multiple Choice	Questions			
1. Pick the odd one out				
a. Luxuries	b. Comforts	c. Necessaries	d. Agricultural goods	
2. Choice is always constr	rained or limited by the	e of our resources.		
a. Scarcity	b. Supply	c. Demand	d. Abundance	
3. The chief exponent of t	the Cardinal utility app	oroach was		
a. J.R.Hicks	b. R.G.D.Allen	c. Marshall	d. Stigler	
4. Marginal Utility is mea	asured by using the for	mula of		
a. TUn-TUn-1	b. TUn-TUn+1	c. TUn+TUn+1	d. TUn-TUn+1	
5. When marginal utility	reaches zero, the total	utility will be		
a. Minimum	b. Maximum	c. Zero	d. Negative	
6. Gossen's first law is kn	nown as.			
a. Law of equi-margin	al utility.	b. Law of diminis	hing marginal utility	
c. Law of demand.		d. Law of Diminishing returns.		
7. The basis for the law o	f demand is related to			
a. Law of diminishing marginal utility b. Law of supply				
c. Law of equi-marginal utility. d. Gossen's Law.				
8. The concept of consum	ner's surplus is associat	ed with		
a. Adam Smith	b. Marshall	c. Robbins d. R	icardo	
9. Given potential price i	s Rs.250 and the actual	price is Rs.200. Find the o	consumer surplus.	
a. 375	b. 175	c. 200 d. 5	0	
10. Indifference curve ap	proach is based on			
a. Ordinal approac	h	b. Cardinal approach		
c. Subjective approa	ch	d. Psychological approach		
11. The concept of elastic	city of demand was intr	oduced by		
a. Ferguson	b. Keynes	c. Adam Smith	d. Marshall	
12. Increase in demand is	s caused by			
a. Increase in tax	b. Higher subsidy	c. Increase in interest rate	d. decline in population	
13. The movement on or	along the given demand	d curve is known as		
a. Extension and contraction of demand. b. shifts in the demand.				
c. increase and deci	rease in demand.	d. all the above		
14. In case of relatively m	ore elastic demand the	shape of the curve is		

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a. Horizontal

Page 11

c. Steeper d. Flatter

b. Vertical

15. A consumer is in equilibrium when marginal utilities from two goods are

a Minimum

b Inverse

c. Equal

d. Increasing

16. Indifference curve was first introduced by

a. Hicks

b. Allen

c. Keynes

d. Edge worth

17. Elasticity of demand is equal to one indicates

a. Unitary Elastic Demand

b. Perfectly Elastic Demand

c. Perfectly Inelastic Demand

d. Relatively Elastic Demand

18. The locus of the points which gives same level of satisfaction is associated with

a. Indifference Curves

b. Cardinal Analysis

c Law of Demand

d. Law of Supply

19. Ordinal Utility can be measured by

a. Ranking

b. Numbering

c. Wording

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d. None of these

20. The indifference curve are

a. vertical

b. horizontal

c. positive sloped

d. Negatively sloped

II. ANSWER THE FOLLOWING QUESTIONS IN ONE OR TWO SENTENCES.

21. Define Utility.

- ♣ In economic utility is the want satisfying power of a commodity or a service.
- ♣ It is in the goods and service for an individual consumer at a particular time and at a particular place.

22. Mention the classifications of wants.

- * Necessaries: Food, Clothing and Shelter
- **Comforts:** Tv, Fan, Refrigerator and Air conditioner.
- **Luxuries:** Jewelry, Diamonds and cars

23. Name the basic approaches to consumer behavior.

- Cardinal Approach
- Ordinal Approach

24. What are the degrees of price elasticity of Demand?

- * Perfectly Elastic Demand
- * Perfectly Inelastic Demand
- * Relatively Elastic Demand
- * Relatively Inelastic Demand

25. State the meaning of indifference curves.

An indifference curve is the locus of all combinations of commodities from which the consumer derives the same level of satisfaction.

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♣ It is also called ISO-Utility Curve or Equal Satisfaction Curve".

26. Write the formula of consumer's surplus.

Consumer's Surplus = Potential price – Actual Price

Consumer's Surplus = $TU - (P \times Q)$

27. What are Giffen goods? Why it is called like that?

- > It is an exception to the law of demand.
- ➤ When the price of inferior goods falls, the poor will buy less and vice versa.

III. ANSWER THE FOLLOWING QUESTIONS IN ONE PARAGRAPH:

28. Describe the feature of human wants.

♣ Wants are unlimited:

Human wants are countless in number and various in kinds.

***** Wants become habits:

When a man starts reading news paper in the morning, it becomes a habit.

***** Wants are Alternative:

There are alternative ways to satisfy a particular want

29. Mention the relationship between marginal utility and total utility.

S.no	Marginal Utility	Total Utility
1	It declines	It increases
2	It reaches zero	It reaches maximum
3	It becomes negative	It declines.

30. Explain the concept of consumer's equilibrium with a diagram.

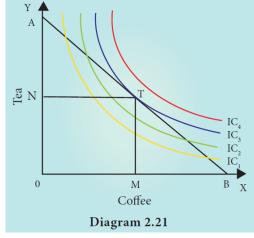
Meaning:

Consumer will attain equilibrium when he gets maximum satisfaction from his expenditure on different goods is highest.

Consumer Equilibrium: MRSxy = Px / Py

- T is the point of equilibrium as budget line AB is tangent on indifference curve IC3 the upper IC which implies maximum possible level of satisfaction.
- At equilibrium point
- The slope of IC refers to MRSXY and the slope of AB refers to ratio of price of X to price of Y ie. Px/Py.
- Therefore MRS x,y = Px/Py

31. Explain the theory of "consumer's surplus".



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The excess of price which a person would be willing to pay rather than go without the thing, over that which he actually does pay, is the economic measures of this surplus of satisfaction.

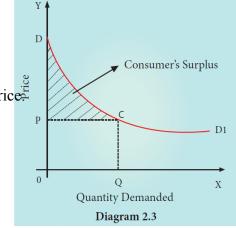
Consumer Surplus = Fotential price – Actual price

Consumer Surplus = $TU - (P \times Q)$

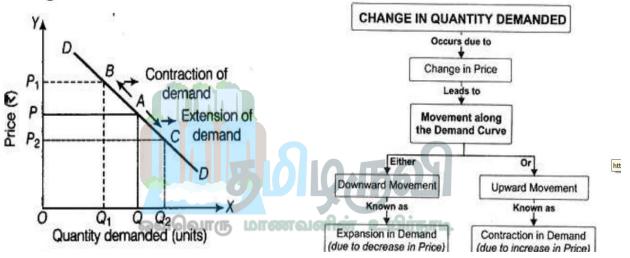
Where, TU – Total Utility, P = Price, Q= Quantity

Assumptions:

- X axis shows the amount demanded and Y axis represents the price.
- **②** DD1 shows the utility which the consumer derives from the purchase of different amounts of commodity.
- When price is OP, the amount demanded is OQ.
- Hence, actual prices OPCQ (OP x OQ). Total utility is ODCQ.



32. Distinguish between extension and contraction of demand.



The changes in the quantity demanded for a commodity due to the change in its price alone are called Extension and Contraction of Demand.

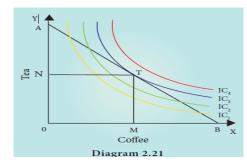
33. What are the properties of indifference curves?

- Indifference curve must have negative slope
- ❖ Indifference curves are convex to the origin
- ❖ Indifference curve cannot intersect.
- ❖ Indifference curves do not touch the horizontal or vertical axis.

34. Briefly explain the concept of consumer's equilibrium.

The consumer reaches equilibrium at the point where the budget line is tangent on the indifference curve.

- ★ T is the point of equilibrium as budget line AB is tangent on indifference curve IC₃ the upper IC which implies maximum possible level of satisfaction.
- **♣** At equilibrium point, the slope of IC refers to MRSxy



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and the slope of BL (Budget Line) refers to ratio of price of X to price of Y ie P_x/P_y . Therefore $MRS_{x,y} = P_x/P_y$.

IV. ANSWER THE FOLLOWING QUESTIONS IN ABOUT A PAGE:

35. Explain the law of demand and its exceptions.

Definitions

The Law of Demand says as "the quantity demanded increases with a fall in price and diminishes with a rise in price".

Assumptions of Law of Demand:

- ♣ The income of the consumer remains constant.
- ♣ The taste, habit and preference of the consumer remain the same.
- * The prices of other related goods should not change.
- ♣ There should be no substitutes for the commodity in study.

Explanation:

- ♠ Quantity demanded and Y axis represents the price of the commodity
- ▲ DD is the demand curve, which has a negative slope.
- ♣ Slop downward from left to high which indicates that when price falls the demand expands and when price rises, the demand contracts.

Conclusions:

There is an inverse relationship between the price and the quantity demanded of a commodity.

36. Elucidate the law of diminishing marginal utility with diagram.

Definition:

The additional benefit which a person derives from a given increase of his stock of a thing, diminishes with every increase in the stock that he already has.

Assumption:

- Utility can be measured by cardinal number.
- ❖ The marginal utility of money remains constant
- * The consumer should be a rational consumer.
- ❖ The units of the commodity must be reasonable in size.

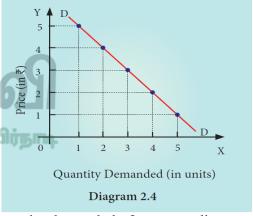
Explanation:

Units of apple	Total utility	Marginal utility
1	20	20
2	35	15 (35-20)
3	45	10 (45-35)
4	50	5 (50-45)
5	50	0 (50-50)
6	45	-5 (45-50)

35

Price	Quantity
5	1
4	2
3	3
2	4
1	5

-Marshall



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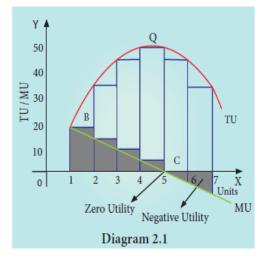
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-10 (35-45)

- Suppose a consumer wants to consume 7 apples one after another.
- ♣ The utility from the first apple is 20.
- A But the utility from the second apple will be less than that of the (15 = 35-20), third apple (10 = 45-35) and so on.
- Finally, the utility from the fifth apple becomes zero and the utilities from sixth and seventh apples are negative.

Criticism

- ▲ Utility cannot be measured numerically, because utility is subjective.
- ▲ Law is based on the unrealistic assumptions.
- ♠ This law is not applicable to indivisible commodities.



37. Explain the law of Equi-marginal utility.

Meaning:

- Solution To analyze such a situation, the law of diminishing marginal utility is extended and is called "Law of Equi- Marginal Utility".
- \$\ It is also called the "Law of Substitution".

Equi-marginal =
$$MU_A = MU_O = K$$

Assumption:

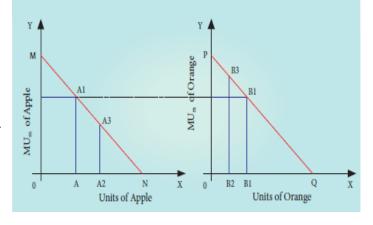
• The consumer is rational in the sense that he wants to get maximum satisfaction.

PA

- The utility of each commodity is measurable in cardinal numbers.
- The marginal utility of money remains constant.

Explanation:

- ❖ X axis represents the amount of money spent and Y axis represents the mariginal utilities of apple and orange respectively.
- ❖ If the consumer spends ₹10 on Apple and ₹4 on Orange, the marginal utilities of both are equal i.e.,AA1=BB1 (5=5).
- Hence, he gets maximum utility.



38. What are the methods of measuring Elasticity of demand?

Methods:

- The percentage method
- Total outlay method

See Point elasticity method

i). The percentage method:

$$e_p = \frac{\Delta Q}{\Delta P} \times \frac{P}{Q}$$

It is also known as ratio method, when we measure the ratio as:

$$e_{p} = \frac{\% \Delta Q}{\% \Delta P}$$
 where,

 $\%\Delta Q$ = percentage change in demand

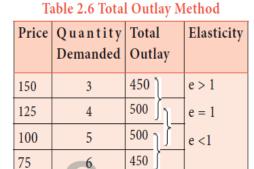
 $\%\Delta P$ = Percentage change in price

ii). Total outlay Method:

The examines the change in total outlay of the consumer or total revenue of the firm.

Total revenue = $(Price \ x \ Quantity \ sold)$

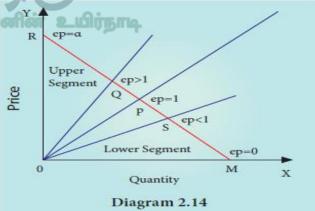
 $TR = (P \times Q)$



iii). Point Elasticity Method:

It is a linear demand curve is shown by the ratio of the segments of the line to the right and to the left of the particular point.

$$\mathbf{Ep} = \mathbf{L} / \mathbf{U}$$



CHAPTER 3

PRODUCTION ANALYSIS

I. Multiple Choice Questions:

		eacoulono.			
1.	The primary factors of	production are:			
a. Labour and Organization		b. Labour and Capital			
	c. Land and Capital		d. Land and Lab	our.	
2.	The man-made physica	l goods used to prod	uce other goods and	services are referred to as.	
	a. Land	b. Labour	c. Capital	d. Organization.	
3.	Formula for calculating	AP is			
	a. ΔTP/N	b. $\Delta TP/\Delta N$	c. TP/MP	d. TP/N	
4.	Which factor is called tl	he changing agent of	the Society		
	a. Labourer	b. Land	c. Organizer	d. Capital	
5.	Who said, that one of th	e key of an entrepre	neur is "uncertainty	-bearing".	
	a. J.B.Clark	b. Schumpeter	c. Knight	d. Adam Smith	
6.	The functional relations	ship between "inputs	" and "outputs" is c	called as	
	a. Consumption Function	on	b. Production Fu	nction	
	c. Savings Function		d. Investment Fun	ction	
7.	In a firm 5 units of fac	t <mark>or</mark> s produce 24units	s of the product. W	hen the number of factor increase	
	by		DIO TE	341	
	one, the production inci	reases to 30 units. Ca	lculate the Avarage	Product.	
	a. 30	ஓ்டிவொரு மா	ணவனின் உயி	d. 24	
8.	The short-run production	on is studied through	1		
	a. The Laws of Returns	to Scale	b. The Law of Va	riable Proportions	
	c. Iso-quants		d. Law of Demand	1	
9.	The long-run productio	n function is explain	ed by		
	a. Law of Demand		b. Law of Supply		
	c. Returns to Scale		d. Law of Variable	e Proportions	
10	. An Iso-quant curve is a	also known as			
	a. Inelastic Supply Curv	ve	b. Inelastic Demar	nd Curve	
	c. Equi-marginal Utility	I	d. Equal Product	Curve	
11	. Mention the economies	s reaped from inside	the firm		
	a. financial	b. technical	c. managerial	d. all of the above	
12	. Cobb-Douglas product	tion function assume	S		
	a. Increasing returns to	scale	b. Diminis	b. Diminishing returns to scale	
	c. Constant returns to	scale	d. All of th	ne above	

13. Name the returns to scal	e when the output increase	s by more than 5%, i	for a 5% increase in the
inputs,	anala	h doonoosino notumo	. to goole
a. Increasing returns to		b. decreasing returns	to scale
c. Constant returns to scal		d. All of the above	
14. Which of the following is			1 612 22
a. Its limited supply.	b. It is mobile	c. Heterogeneous	d. Gift of Nature
15. Product obtained from a	-		
a. Marginal product	b. Total product	c. Average product	d. Annual product
16. Modern economists have	e propounded the law of		
a. Increasing returns	b. decreasing returns	c. Constant returns	d. variable proportions.
17. Producer's equilibrium	is achieved at the point who	ere:	
a. Marginal rate of techn	ical substitution (MRTS) is g	reater than the price r	atio
b. MRTS is lesser than the	ne price ratio		
c. MRTS and price rati	o are equal to each other		
d. The slopes of isoquant	and isocost lines are differen	nt.	
18. The relationship between	n the price of a commodity	and the supply of co	mmodity is
a. Negative	b. Positive	c. Zero	d. Increase
19. If average product is dec	<mark>c</mark> reasi <mark>ng, th</mark> en ma <mark>r</mark> ginal pro	duct	
a. must be greater than a	verage product	b. must be less than	ı average product
c. must be increasing		d. both a and c	
20. A production function m	neasures the relation between	ின் உயிர்நாடி en	
a. input prices and output	prices	b. input prices and th	ne quantity of output
c. the quantity of inputs	and the quantity of output	d. the quantity of inp	outs and input prices.
II. ANSWER THE FOLL	OWING QUESTIONS IN	ONE OR TWO SI	ENTENCES.
21. Classify the factors	s of production.		
Land	•	Capital	
Labour	•	Organization	
22. Define Labour.			
Labour represents service	ces provided by the factor la	bour, which helps in	yielding an income to the
owner of the labour now	-	. 1	

- Marshall

23. State the production function.

"It is the relationship between inputs of productive services per unit of time and outputs of product per unit of time."

- George J. Stigler

24. Define Marginal Product of a factor.

It is the addition or the increment made to the total product when one more unit of the variable input is employed.

25. What is Iso-cost line?

It's illustrates all the possible combinations of two factors that can be used at given costs and for a given producer's budget.

26. What are the conditions for producer's equilibrium?

- ▲ It must be tangent to iso-quant curve.
- ▲ At point of tangency, the iso-quant curve must be convex to the origin.

27. What are the reasons for upward sloping supply curve?

- ♠ As the price of the commodity increases, the quantum supplied of the commodity also increases.
- ▲ Thus the supply curve has a positive slope from left to right.

III. ANSWER THE FOLLOWING QUESTIONS IN ONE PARAGRAPH.

28. What are the characteristics of land?

- . Land is a primary factor of production.
- ♣ "Land is a passive factor of production.
- . Land is the free gift of Nature.
- ♣ "Land is permanent.
- .Land is immovable

29. What are the factors governing elasticity of supply?

- ♠ Nature of the commodity
- ♠ Cost of production
- **♠** Technical condition
- **♠** Time factor

30. What are the functions of Entrepreneur?

- > Initiation
- > Innovation
- ➤ Co-Ordination
- ➤ Control, Direction & Supervising
- Risk- Taking

31. State and explain the elasticity of supply.

- ♣ It may be defined as the degree of responsiveness of change in supply to change in price on the part of sellers.
- Elasticity of Supply = Proportionate change in supply/proportionate change in price

PREPARL $e_{s} = (\Delta Q_s/Q_s) / (\Delta P/P); e_s = \Delta Q_s / \Delta P \times P/Q_s$

32. Bring out the Relationship among Total, Average and Marginal Products.

Stages	TP	AP	MP
I	increases at an increasing	Beginning it increases, reaches a	Increases then attain maximum.
	rate	maximum and starts to decrease.	
II	Increases at admonishing	Diminish and becomes	Equal to MP and then begins to
	rate and reaches maximum	equal to zero	diminish
III	Diminishes	Become negative	Continues to diminish but
			always greater than zero

33. Illustrate the concept of Producer's Equilibrium.

Menaing:

The producer manufactures a given amount of output with 'least cost combination of factors', with his given budget.

Conditions for Producer's Equilibrium:

- ♠ The iso-cost line must be tangent to iso-quant curve.
- ▲ At point of tangency, the iso-quant curve must be convex to the origin.
- ▲ At point E the firm employs OM units of labour and ON units of capital.



34. State the Cobb-Douglas Production Function.

Meaning:

It is a linear homogeneous production function which implies that the factors of production can be substituted for one another up to a certain extent only.

The Cobb-Douglas production function can be expressed as follows.

$$O = AL \alpha K\beta$$

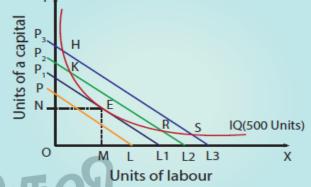
Where, Q = output; A = positive constant; K = capital; $L = \text{Labor } \alpha$ and β are positive fractions showing, the elasticity coefficients of outputs for the inputs labor and capital, respectively.

- $\beta = (1 \alpha)$ since $\alpha + \beta = 1$. denoting constant returns to scale.
- Factor intensity can be measured by the ratio β / α .

IV. ANSWER THE FOLLOWING QUESTIONS IN ABOUT A PAGE

35. Examine the Law of Variable Proportions with the help of a diagram.

Meaning:



The law of variable proportions states that as the quantity of one factor is increased, keeping the other factors fixed, the marginal product of that factor will eventually decline.

Assumptions:

- Only one factor is variable while others are held constant.
- All units of the variable factor are homogeneous.
- The product is measured in physical units.
- There is no change in the price of the product.

Total Product (TP)

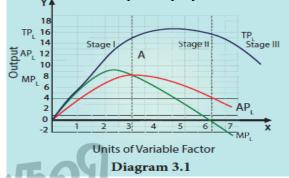
- ▲ It refers to the total amount of commodity produced by the combination of all inputs in a given period of time.
- $TP = \sum MP$

Average Product (AP)

- ♣ It is the result of the total product divided by the total units of the input employed.
- AP = TP/N

Marginal Product (MP)

- ❖ It is the addition or the increment made to the total product.
- $\Leftrightarrow MP = \Delta TP/\Delta N$



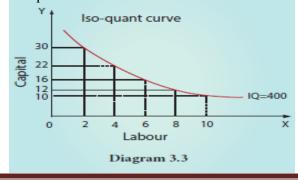
36. List out the properties of iso-quants with the help of diagrams.

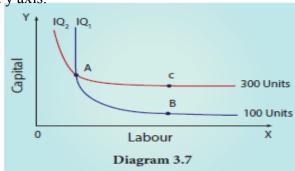
Meaning:

- An –iso-quant curve can be defined as the locus of points representing various combinations of two inputs capital and labour yielding the same output.
- **%** The iso-quant is also called as the "Equal Product Curve".

Properties of iso-quant curve:

- The iso-quant curve has negative slope.
- Convex to the origin
- Non inter-section of iso quant curves
- An upper iso-quant curve represents a higher level of output.
- Iso-quant curve does not touch either x azis and y axis.





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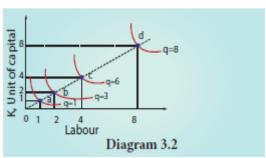
37. Elucidate the Laws of Returns to Scale. Illustrate.

Meaning:

The laws of returns to scale explain the relationship between output and the scale of inputs in the long run when all the inputs are increased in the same proportion.

Assumptions:

- ❖ All the factors of production are variable but organizations are fixed.
- ❖ There is no change in technology
- ❖ There is perfect competition in the market.
- Outputs or returns are measured in physical quantities.



Three phases of return to scale:

- Increasing returns to scale
- Constant returns to scale
- Diminishing returns to sclae

Explanation:

Scale

a to b 100% ↑ 200% ↑ Increasing

b to c 100% ↑ 100% ↑ Constant

c to d 100% ↑ 33.33% ↑ Decreasing

Input

Stages

Output

Returns to

- ♣ In the movement from point a to point b represents increasing returns to scale.
- * The law of constant retrurns to scale is implied by the movement from the point b to point c
- A Decreasing returns to scale are denoted by the movement from the point c to point d

38. Explain the internal and external economies of scale.

Basic	Internal ஒவ்வொரு மாணவனின்	External	
Technical	There is possibility to introduce up	Increased transport facilities.	
Economies	to date technologies.		
Financial	Big firms can float shares in the	Banking facilities.	
economies	market for capital expansion.		
Managerial	Large scale production facilitates	Development of townships.	
economies	specialization and delegation.		
Labour econom	Large scale production implies greater	Development of information	
	and minute division of labour.	communication.	
Marketing	The producer can both buy raw	Expansion of the plant size.	
economies	materials in bulk at cheaper cost.		

CHAPTER 4

COST AND REVENUE ANALYSIS

I. MULTIPLE CHOICE	E QUESTIONS				
1. Cost refers to	_				
a. price	b. value	c. fixed cost	d. cost of production		
2. Cost functions are also	known as	function.			
a. production	b. investment	c. demand	d. consumption		
3. Money cost is also kno	own as	cost.			
a. explicit	b. implicit	c. social	d. real		
4. Explicit cost plus impl	icit cost denote	cost.			
a. social	b. economic	c. money	d. fixed		
5. Explicit costs are term	ned as				
a. out of pocket ex	penses b	. real cost c. so	cial cost d. sunk cost		
6. The costs of self-owner	d resources are ter	med as cost.			
a. real	b. explicit	c. money	d. implicit		
7. The cost that remains	constant at all leve	els of output is c	ost.		
a. fixed	b. variable	c. real	d. social		
8. Identify the formula of	f es <mark>ti</mark> mati <mark>ng ave</mark> rag	ge <mark>variable cost.</mark>	S Q		
a. TC/Q	b. TVC/Q	c. TFC/Q	d. TAC/Q		
9. The cost incurred by producing one more unit of output iscost.					
a. variable	b. fixed	c. marginal	d. total		
10. The cost that varies w	vith the level of out	tput is termed as	_ cost.		
a. money	b. variable cost	c. total cost	d. fixed cost		
11. Wage is an example for	or cost o	f the production.			
a. fixed	b. variable	c. marginal	d. opportunity		
12. The cost per unit of o	utput is denoted by	y cost.			
a. average	b. marginal	c. variable	d. total		
13. Identify the formula of	of estimating avera	ige cost.			
a. AVC/Q	b. TC/Q	c. TVC/Q	d. AFC/Q		
14. Find total cost where	TFC=I00 and TV	C = 125.			
a. 125	b. 175	c. 225	d. 325		
15. Long-run average cos	st curve is also call	ed as curve.			
a. demand	b. planning	c. production	d. sales		
16. Revenue received from	16. Revenue received from the sale of products is known as revenue.				
a. profit	b. total revenue	c. average	d. marginal		
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17. Revenue received from the sale of additional unit is termed as revenue.

- a. profit
- b. average
- c. marginal
- d. total

18. Marginal revenue is the addition made to the

- a. total sales
- b. total revenue
- c. total production
- d. total cost

19. When price remains constant, AR will be MR.

- a. equal to
- b. greater than
- c. less than

d. not related to

20. A book seller sold 40 books with the price of Rs. 10 each. The total revenue of the seller is ...

a. 100

- b. 200
- c. 300

d. 400

II. ANSWER THE FOLLOWING QUESTIONS IN ONE OR TWO SENTENCES.

21. Define cost.

- Cost refers to the total expenses incurred in the production of a commodity.
- ♠ Cost analysis refers to the study of behavior of cost in relation to one or more production.

22. Define cost function.

- The functional relationship between cost and output is expressed as cost function.
- \bullet C = f(Q)
- \bullet Where, c = cost and Q = quantity of output.

23. What do you mean by fixed cost?

- Fixed cost does not change in the quality of output.
- Fixed cost is also called as supplementary cost.

24. Define Revenue.

- The amount of money that a producer receives in exchange for the sale of goods is known as revenue.
- **♦** It means sales revenue.
- \mathbf{O} TR = P x Q

25. Explicit Cost - Define.

- ❖ It refers to the actual expenditure of the firm to purchase the inputs the firm needs.
- * Examples: Wages, payment for raw material

26. Give the definition for 'Real Cost'.

- * Real cost refers to the payment made to compensate the efforts and sacrifices of all factor owners for their services in production.
- * It includes the efforts and sacrifices landlords in the use of land.

27. What is meant by Sunk cost?

- A cost incurred in the past and cannot be recovered in future is calls as sunk cost.
- They are unrecoverable.

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III. ANSWER THE FOLLOWING QUESTIONS IN ONE PARAGRAPH.

28. Distinguish between fixed cost and variable cost.

s.no	Fixed cost	Variable cost
1	It refers to the incurred on the fixed factors	It refers to the cost incurred on the variable factors
	production.	production.
2	This Cost Remains Constant irrespective	It varies with levels of outputs
	of the levels of outputs.	
4	This is also known as supplementary cost.	This is also known as prime cost

29. State the differences between money cost and real cost.

s.no	Money cost	Real cost
1	Production cost expressed in money terms is	The efforts and sacrifices of all factor owners for t
	called money cost.	services in production.
2	It includes the expenditure such as cost of raw	It includes the efforts and sacrifices of landlords i
	materials, payment of wages and salaries.	use of land, capitalist.
4	It is also called as prime cost or direct cost.	It is also called opportunity cost

30. Distinguish between explicit cost and implicit cost.

s.no	Explicit cost	Implicit cost
1	It includes actual money expenditure incurred	It is not actual money expenditure but is the cost o
	by a firm in hiring or buying the factors it	factors owned by the firm and used by the form in
	needs in the production process.	production process.
2	It is a payment concept	It is a receipt concept
4	Examples: Wages, rent, Interest	Examples: Wages of self labour

31. Define opportunity cost and provide an example.

- ▲ It refers to the cost of next best alternative use.
- ▲ It is the value of the next best alternative foregone.
- ▲ Ex: A farmer can cultivate both paddy and sugarcane in a farm land.
- ▲ Opportunity cost is also called as Alternative cost.
 - When MC < AC, AC falls
 - When MC = AC, AC is constant and at its minimum point.
 - When MC > AC, Ac rises.

1200 AC 900 650 450 300 200 Output Diagram 4.8

32. State the relationship between AC and MC.

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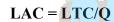
- ❖ When Ac is falling, MC lies below AC.
- ❖ When AC becomes constant, MC also becomes equal to it.
- ❖ When AC starts increasing MC lies above the AC.
- ❖ MC curve always cuts AC at its minimum point from below.

33. Write a short note on Marginal Revenue.

- A Marginal cost is the addition made to the total cost by producing one extra unit of output.
- $MC = \Delta TC / \Delta Q$
- * Where MC denotes Marginal cost, Δ TC denotes change in the total cost and Δ Q denotes change in total quantity.
- ♣ The other method of estimating MC is : $MC = TC_n TC_{n-1}$.
- ♣ MC Marginal Cost, TC_n Total cost of nth item, TC_n-1 Total cost of 1th item.

34. Discuss the Long run cost curves with suitable diagram.

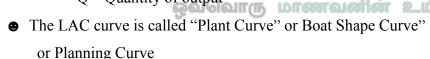
- In the long run all factors of production become variable.
- The existing size of the firm can be increased in the case of long run.
- There are either fixed inputs nor fixed costs in the long run.
- LAC is equal to long run total costs divided by the level of output.

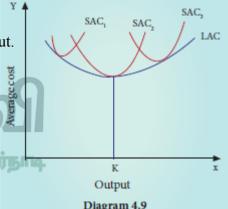


LAC – Long run Average Cost

LTC – Long run Total Cost

Q – Quantity of output





IV. ANSWER THE FOLLOWING QUESTIONS IN ABOUT A PAGE

35. If total cost = 10+Q3, find out AC, AVC, TFC, AFC when Q=5.

$$TC = TFC + TVC$$

$$135 = x + 125$$

$$10 + (5) 3$$

$$TC = 10 + 125$$

$$TFC = 10$$

$$TC = 135$$

$$AFC = TFC/Q$$

$$135 = 10 + TVC$$

$$AFC = 10/5 =$$

$$AFC = 2$$

$$135 - 10 = TVC$$

$$AVC = TVC/Q$$

$$125 = TVC$$

$$= 125/5$$

$$AVC = 25$$

$$TVC = 125$$
, $TC = 135$, therefore TFC?

$$AC = TC/O$$

$$TC = TFC + TVC$$

$$= 135/5$$

$$AC = 27$$

36. Discuss the short run cost curves with suitable diagram.

Short Run Cost Curves:

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i). Total Cost:

Total cost is the sum of Total Fixed Cost and Total Variable Cost

$$TC = TFC + TVC$$

ii). Average Fixed Cost Curve:

It is the fixed cost per unit of output.

$$AFC = TFC / O$$

iii). Average Variable Cost:

It is the variable cost per unit of output

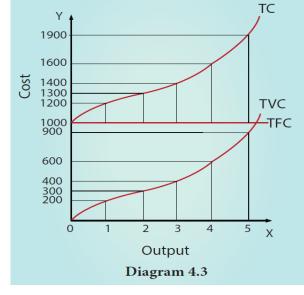
$$AVC = TVC / Q$$

iv). Average Cost:

It is the total cost divided by the number of units of output produced.

$$AC = TC/Q$$

v). Marginal Cost:



It is the additional made to the total cost by the production of one additional unit of output

$$MC_n = TC_n - TC_n - 1$$

37. Bring out the relationship between AR and MR curves under various price conditions.

Average Revenue:

• It is the revenue per unit of the commodity sold. It is calculated by dividing the total revenue by the number of units sold.

TR, AR, MR - Constant price

$$\bullet \quad AR = TR / Q$$

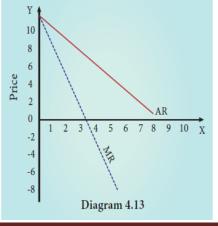
Marginal revenue:

♣ It is the addition made to the total revenue by selling one more unit of a commodity

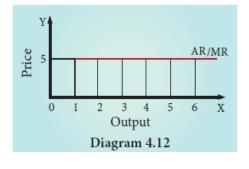
$$R_n = TR_n - TR_{n-1}$$

AR, TR, MR at declining price

Quantity Sold (Q)	Price (P)/ Average Revenue (AR) ₹	Total Revenue (TR) ₹	Marginal Revenue (MR) ₹
1	10	10	-
2	9	18	8
3	8	24	6
4	7	28	4
5	6	30	2
6	5	30	0
7	4	28	-2
8	3	24	-4
9	2	18	-6
10	1	10	-8



Quantity Sold	Price (P)	Revenue		Marginal Revenue
(Q)	₹	(TR) ₹	(AR) ₹	(MR) ₹
1	5	5	5	5
2	5	10	5	5
3	5	15	5	5
4	5	20	5	5
5	5	25	5	5
6	5	30	5	5



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Page 28

- If a firm is able to sell additional units at the same price then AR and MR will be constant and equal.
- If the firm is able to sell additional units only by reducing the price, both AR and MR will fall and be different

aaaaaaaaaaaaa



CHAPTER 5 MARKET STRUCTURE AND PRICING

I. MULTIPLE CHOICE	QUESTIONS				
1. In which of the following	g is not a type of marl	ket structu	re Price will be ve	ry high	?
a. Perfect competiti	on b. Monopoly	c.	Duopoly	d. Olig	gopoly
2. Equilibrium condition o	f a firm is				
a. MC = MR	b. $MC > MR$	c.	$MC \le MR$	d. MR	= Price
3. Which of the following i	s a feature of monopo	olistic com	petition?		
a. One seller	b. Few sellers	s c.	Product different	iation	d. No entry
4. A firm under monopoly	can earnii	n the short	run.		
a. Normal profit	b. Loss	c. Super	normal profit		d. More loss
5. There is no excess capac	ity under	•••••			
a. Monopoly		b. Monop	polistic competition	l	
c. Oligopoly		d. Perfec	t competition		
6. Profit of a firm is obtain	ed when	•			
a. TR < TC	b. TR - MC	c. TR > 7	ΓC d. TR	=TC	
7. Another name of price i	s	10	TEAN!		
a. Average Revenue	b. Marginal R	Revenue	c. Total Reve	nue	d. Average Cost
8. In which type of market	, AR and MR are equ	al	உயிர்நாடி		
a. Duopoly		b	. Perfect competiti	on	
c. Monopolistic com	petition	d.	Oligopoly		
9. In monopoly, MR curve	lies below				
a. TR	b. MC	c. AR	d. AC	1	
10. Perfect competition ass	sumes				
a. Luxury goods	b. Producer goods	c. Differe	entiated goods	d. Ho	mogeneous goods
11. Group equilibrium is a	nalysed in				
a. Monopolistic con	petition	b.	Monopoly		
c. Duopoly		d.	Pure competition		
12. In monopolistic compe	tition, the essential fe	ature is	•		
a. Same product	b. selling cos	t c.	Single seller		d. Single buyer
13. Monopolistic competiti	on is a form of				
a. Oligopoly	b. Duopoly	c.	Imperfect compe	tition	d. Monopoly
14. Price leadership is the	attribute of				

- a. Perfect competition b. Monopoly c. Oligopoly d.Monopolisticcompetition 15. Price discrimination will always lead to..... a. Increase in output c. Different prices b. Increase in profit d. b and c 16. The average revenue curve under monopolistic competition will be..... c. Relatively elastic d. Unitary elastic b. Perfectly elastic a. Perfectly inelastic 17. Under perfect competition, the shape of demand curve of a firm is...... b. Horizontal c. Negatively sloped d. Positively sloped 18. In which market form, does absence of competition prevail? d. Oligopoly a. Perfect competition b. Monopoly c. Duopoly 19. Which of the following involves maximum exploitation of consumers? a. Perfect competition c. Monopolistic competition d. b. Monopoly Oligopoly
- 20. An example of selling cost is ...
 - a. Raw material cost b. Transport cost c. Advertisement cost d. Purchasing cost

II. ANSWER THE FOLLOWING QUESTIONS IN ONE OR TWO SENTENCES.

21. Define Market.

In economics the term market refers to a system of exchange between the buyers and the sellers of a commodity directly or indirectly.

22. Who is price-taker?

- * It is a seller who has no control to fix price for a good or service
- A price taker simply has to accept the market price.

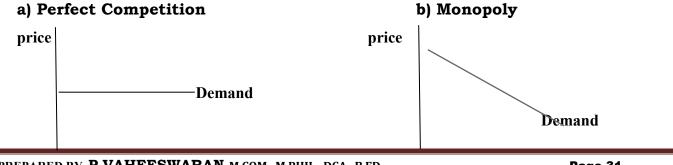
23. Point out the essential features of pure competition.

- Large number of buyers and sellers
- Homogeneous product and uniform price
- ❖ Free entry and exit
- Absence of transport cost.

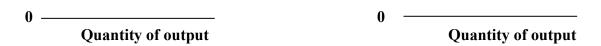
24. What is selling cost?

It refers to those expenses which are incurred for popularizing the differentiated product and increasing the demand for it.

25. Draw demand curve of a firm for the following:



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26. Mention any two types of price discrimination

- * Personal different prices are charged for different individuals.
- * Geographical Different prices are charged at different places for the same product.

27. Define "Excess capacity".

A monopolistic firm produces deliberately output which is less than the optimum output that is the output corresponding to the minimum average cost.

III. ANSWER THE FOLLOWING QUESTIONS IN ONE PARAGRAPH.

28. What are the features of a market?

- ❖ Buyers and sellers of a commodity or a service
- ❖ A commodity to be bought and sold
- Price agreeable to buyer and seller
- Direct or indirect exchange

29. Specify the nature of entry of competitors in perfect competition and monopoly.

Nature of Entry of competitor		
Perfect competition	Monopoly	
It is possible for the very efficient	There is strict barrier for entry of any new firm	
producer producing the product at a	00	
very low cost, to earn super normal profit.	Ollo/IBOYI	

30. Describe the degrees of price discrimination.

i). First degree price discrimination

- A monopolist charges the maximum price that a buyer is willing to pay.
- For example, Auctions

ii) Second degree price discrimination

- Under this degree, buyers are charged prices in such a way that a part of their consumer's surplus is taken away by the sellers.
- For example, Cinema theatres

iii) Third degree price discrimination

- ▲ The monopolist splits the entire market into a few sub-market and charges different price in each sub-market.
- ♠ For example, railways

31. State the meaning of selling cost with an example.

- ❖ It was Chamberlin who introduced the analysis of selling costs.
- Selling cost play the key role in monopolistic competition.

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- ❖ The firms have to compete to promote their sale by spending on advertisement and publicity ads to the demand of the product.
- ❖ In selling cost we include the salaries, allowance.

32. Mention the similarities between perfect competition and monopolistic competition.

S.No	Basis	Perfect Competition	Monopolistic competition
1	Number of products	In numerable	Large
2	Entry	Free	Free
3	Quantity	Very large	Substantial

33. Differentiate between 'firm' and 'industry'.

S.No	Basis	Firm	Industry	
1	Meaning	It refers to a single production	It refers to a group of firms	
		unit in an industry		
2	Production	Producing a large or a small	Producing the same product or service	
		quantum of a commodity or service	in an economy.	
3	Example	A single cement firm	Cement industry	

34. State the features of duopoly.

- Each seller is fully aware of his rival's motive and actions.
- ➤ Both sellers may collude.
- > They may enter into cut throat competition.
- They fix the price for their product with a view to maximizing their profit.

IV. ANSWER THE FOLLOWING QUESTIONS IN ABOUT A PAGE

35. Bring out the features of perfect competition.

a. Large Number of Buyers and Sellers:

- The term, 'large number of sellers' implies that share of each individual seller is a very, very small quantum of a product.
- This means that he has no power to fix the price of the product.

b. Homogeneous Product and Uniform Price

- All the units of the product are identical of the same size, shape, colour, quality etc.
- ♣ Therefore, a *uniform price* prevails in the market.

c. Free Entry and Exit

- Efficient producer, producing the product at a very low cost, to earn *super normal profits*.
- ❖ Attracted by such a profit, new firms enter into the industry.

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d. Absence of Transport Cost

> The prevalence of the uniform price is also due to the absence of the transport cost.

e. Perfect Knowledge of the Market

• All buyers and sellers have a thorough knowledge of the quality of the product, prevailing price etc.

36. How price and output are determined under the perfect competition?

Meaning:

It is that type of market in which the number of buyers and sellers is very large, all are engaged in buying and selling a homogeneous product at uniform price.

Important Features:

- ❖ Large number of buyer and sellers
- ❖ Free entry and exit
- Homogeneous product and uniform price
- ❖ Absence of transport cost

Price and output determination – perfect competition during short run:

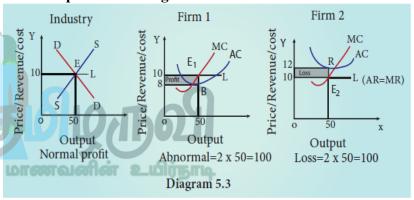
AR – Average Revenue

AC – Average Cost

MR - Marginal Revenue

MC – Marginal Cost

The firms under perfect competition take price (10) from the industry and start adjusting their quantities produced.



37. Describe the features oligopoly.

i). Few large firms

Very few big firms own the major control of the whole market by producing major portion of the market demand.

ii). Interdependence among firms

The price and quality decisions of a particular firm are dependent on the price and quality decisions of the rival firms.

iii). Group behavior

The firms under oligopoly realize the importance of mutual co-operation.

iv). Advertisement cost

The oligopolist could raise sales either by advertising or improving the quality of the product.

v). Nature of product

Perfect oligopoly means homogeneous products and imperfect oligopoly deals with heterogeneous products.

38. Illustrate price and output determination under Monopoly.

Meaning:

* It is a market structure characterized by a single seller, selling the unique product with the restriction for a new firm to enter the market.

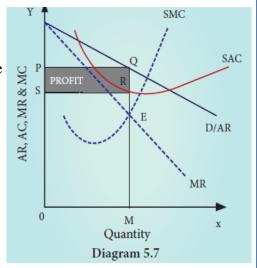
Features:

- ❖ There is a single producer/seller of a product.
- The product of monopolies is unique and has no close substitute.
- ❖ There is strict barrier for entry of any new firm.
- ❖ The monopolist is a price-maker.

Price and Output Determination under Monopoly Explanation:

- **②** The diagram shows that MC cuts MR at E to give equilibrium output as OM.
- At OM, the price charged is OP.
- Also at OM, the cost per unit is MS.
- Therefore, profit per unit is SQ.

Total Profit = Average Revenue - Average Cost x Total output



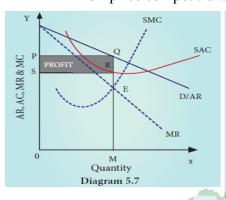
39. Explain price and output determined under monopolistic competition with help of diagram.

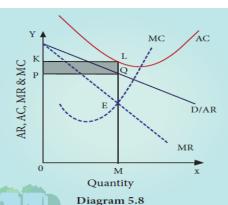
Meaning:

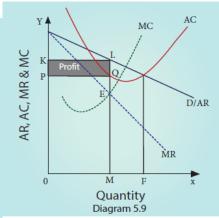
It refers to a market situation where there are many firms selling's differential product.

Important features:

- Large number of buyers and many sellers
- Firms produce differentiated products.
- Firms compete with each other by incurring selling cost.
- Non-price competition.







Explanation:

- The profit maximization is achieved when MC = MR
- Total profit is PQRS. This is super normal profit under short run.
- Total loss is PQLK. This firm incurs loss in the short run.
- In the long run AR curve is more elastic.

CHAPTER 6

DISTRIBUTION ANALYSIS

I. MULTIPLE CHOICE QUESTIONS

1	In	Feanamics	distribution	of incomo	ic amana	tha
1.	111	Economics,	uisti ibutioii	of income	is among	uic

- a. factors of production
- b. individual
- c. firms
- d. traders

2. Theory of distribution is popularly known as,

a. Theory of product-pricing

b. Theory of factor-pricing

c. Theory of wages

d. Theory of Interest

3. Rent is the reward for the use of

- a. capital
- b. labour
- c. land
- d. organization

4. The concept of 'Quasi-Rent' is associated with

- a. Ricardo
- b. Keynes
- c. Walker
- d. Marshall

5. The Classical Theory of Rent was propounded by

- a. Ricardo
- b. Keynes
- c. Marshall
- d Walker

6. 'Original and indestructible powers of the soil' is the term used by

- a. J.S.Mill
- b. Walker
- c. Clark
- d. Ricardo

7. The reward for labour is

- a. rent
- b. wage
- c. profit
- d. interest

8. Money wages are also known as

- a. real wages
- b. nominal wages
- c. original wages
- d. transfer wages

9. Residual Claimant Theory is propounded by

- a. Keynes
- b. Walker
- c. Hawley
- d. Knight

10. The reward given for the use of capital

- a. rent
- b. wage
- c. interest
- d. profit

11. Keynesian Theory of interest is popularly known as

a. Abstinence Theory

b. Liquidity Preference Theory

c. Loanable Funds Theory

d. Agio Theory

12. according to the Loanable Funds Theory, supply of loanable funds is equal to

a. S + BC + DH + DI

b. I + DS + DH + BM

c. S + DS + BM + DI

d. S + BM + DH + DS

13. The concept of meeting unexpected expenditure according to Keynes is

a. Transaction motive

b. Precautionary motive

c. Speculative motive

d. Personal motive

14. The distribution of income or wealth of a country among the individuals are

a. functional distribution

b. personal distribution

c. goods distribution

d. services distribution

- 15. Profit is the reward for
 - a. land
- b. organization
- c. capital
- d. labour

- 16. Innovation Theory of profit was given by
 - a. Hawley
- b. Schumpeter
- c. Keynes
- d. Knight

- 17. Quasi-rent arises in
 - a. Man-made appliances
- b. Homemade items
- c. Imported items
- d. None of

these

- 18. "Wages as a sum of money are paid under contract by an employer to a worker for services rendered" –Who said this?
 - a. Benham
- b. Marshall

- c. Walker
- d. J.S.Mill

- 19. Abstinence Theory of Interest was propounded by
 - a. Alfred Marshall
- b. N.W Senior
- c. Bohm-Bawerk
- d. Knut Wicksell

- 20. Loanable Funds Theory of Interest is called as
 - a. Classical Theory
- b. Modern Theory
- c. Traditional Theory
- d. Neo-Classical

Theory

- II. ANSWER THE FOLLOWING QUESTIONS IN ONE OR TWO SENTENCES.
- 21. What is meant by distribution?
 - ❖ Division of income among the four factors of production.
 - ❖ Distribution is given in terms of rent to landlords, wage to labour, interest to capital and profit to entrepreneurs.
- 22. Mention the types of distribution.
 - Personal Distribution
 - Functional Distribution
- 23. Define 'Rent'.

It is that portion of the product of the earth which is paid to the landlord for the use of original and indestructible powers of the soil.

24. Distinguish between real and money wages.

S.No	Money wages	Real wages
1	It's referred to the wages paid in terms	The wages paid in terms of goods and
	of money.	services.
2	Example: Money received by a worker	Example: real wages = money wages - effect
	per unit of time	of inflation on the purchasing power.

25. What do you mean by interest?

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- Interest is the price paid for the use of capital in any market.
- Interest is the reward paid by the lender for the use of capital.

26. What is profit?

- Profit is a return to the entrepreneur for the use of his entrepreneurial ability.
- ❖ It is the net income of the organizer.

27. State the meaning of liquidity preference.

The preference of the people to hold wealth in the form of liquid cash other than bonds, securities gold and etc.,

III. ANSWER THE FOLLOWING QUESTIONS IN A PARAGRAPH

28. What are the motives of demand for money?

i). The transaction motive:

It relates to the desire of the people to hold cash for the current transaction.

ii). The precautionary motive:

It relates to the desire of the people to hold cash to meet unexpected.

iii). The speculative motive:

It relates to the desire of the people to hold cash in order to take advantage of market movements.

29. List out the kinds of wages.

Money wages

Piece wages

Real wages

Time wages

30. Distinguish between rent and quasi-rent.

s.no	Rent	Quasi-rent
1	Rent accurse to land	It accurse to manmade appliances
2	The supply of land is fixed forever.	The supply of manmade appliances is fixed for a short period only.
3	It enters into price.	It does not enter into price.

31. Briefly explain the Subsistence Theory of Wages.

- Wage must be equal to the subsistence level of the laborer and his family.
- The minimum amount of food, clothing and shelter which workers and their family require for existence.
- If workers are paid higher wages than the subsistence level, the workers would be better off and they will have large families.

32. State the Dynamic Theory of Profit.

- * Population is increasing
- * Volume of capital is increasing

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- * Methods of production are improving
- * Forms of industrial organization are changing.
- * The wants of consumer are multiplying

33. Describe briefly the Innovation Theory of Profit.

- ♣ Introduction of a new product
- ♣ Introduction of a new method of production.
- Opening up of a new market.
- Discovery of new raw materials

34. Write a note on Risk-bearing Theory of Profit.

- ❖ Profit is the reward for "risk taking" in business. Risk taking is an essential function of the entrepreneur and is the basis of profit.
- Since the entrepreneur undertakes the risks, he receives profits.
- ❖ It is the profit that induces the entrepreneur to undertake such risks.

IV. ANSWER THE FOLLOWING QUESTIONS IN ONE PAGE

35. Explain the Marginal Productivity Theory of Distribution.

Meaning:

The price or the reward for any factor of production is equal to the marginal productivity of that factor.

Assumptions:

- All the factors of production are homogeneous.
- Factors of production can be substituted for each other.
- There is perfect competition both in the factor market and product market.

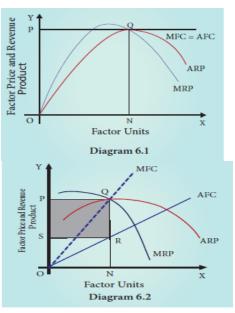
Marginal Product:

- The addition made to the total product by employment of an additional unit of that factor.
- \bullet The marginal product may be expressed as MMP = MPP x MR

MP: Under Perfect Competition:

- ♦ When there is perfect competition in the factor market, the firm is in equilibrium only when MFC = MRP.
- ♠ Hence in the diagram, the firm reaches equilibrium at point Q by employing ON units of factors and paying OP price (NQ) where MFC = MRP.
- \blacktriangle At the point Q, MRP = ARP.
- ▲ The price paid to the factor (NQ) is also equal to marginal revenue product and average revenue product.

Under Imperfect Competition:



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attains his maximum profit and so he stops employment of the factors at the point.

- The total exploitation of factor by the employer is $RO \times SR = PORS$.
- ❖ Thus under imperfect competition, factor is exploited at the equilibrium position.

36. Illustrate the Ricardian Theory of Rent.

Meaning:

Rent is that portion of the produce of the earth which is paid to the landlord for the use of the original and indestructible powers of the soil.

Assumption:

- Land differs in fertility
- The law of diminishing returns operates in agriculture.
- Rent depends upon fertility and location of land.
- Theory assumes perfect competition.

Schedule of Ricardian Theory of Rent

Grades of lands	Production	Surplus
A	40	40-20=20
В	30	30-20=10
С	20	20-20=0

Economic Rent No Rent Land Various Grades of Land Diagram 6.3

Explanation: ஒவ்வொரு மாணவனின் உயிர்நாடி

- § In diagram, X axis represents various grades of land and Y axis represents yield per acre.
- So OA, AB and BC are the A grade, B grade and C grade lands respectively.
- \$\text{\$\section}\$ The application of equal amount of labour and capital on each of them gives a yield represented by the rectangles standing just above the respective bases.
- \$\ The C grade land is the no-rent land, A and B grade lands are intra-marginal lands

37. Elucidate the Loanable Funds Theory of Interest.

Definition:

The rate of interest is determined by the equilibrium between demand for and supply of loanable funds in the credit market.

Demand for Lonable Funds

- Demand for Investment
- **Demand for Consumption**
- Demand for Hoarding

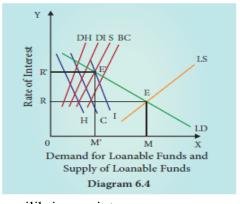
Supply loanable Fund

- Savings
- Bank Credit
- Dishoarding

Equilibrium:

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- The rate of interest is determined by the equilibrium between the total demand for and the total supply of loanable funds.
- E = S + BC + DH + DI = I + C + H
- In diagram X axis represents the demand for and supply of loanable funds and Y axis represents the rate of interest.



- The LD and LS curves, interest each other at the point E the equilibrium point.
- At this point OR rate of interest and OM is the amount of loanable funds.

Criticisms:

- ♠ The loanable funds theory is "indeterminate unless the income level is already known.
- ▲ Difficult to combine real factors like savings and investment with monetary factors like bank credit.

38. Explain the Keynesian Theory of Interest.

Liquidity preference means the preference of the people to hold wealth in the form of liquid cash rather than in other non-liquid asset like bonds, securities, bills of exchange, land, building, gold etc.

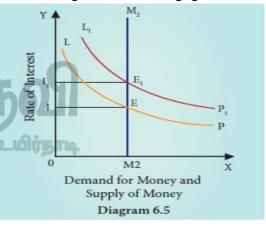
Motives of Demand Motive:

i). The Transaction Motive:

The desire of the people to hold cash for the current transaction Mt = f(y)

ii). The precautionary Motive:

Desire of the people to hold cash to meet unexpected or unforeseen expenditures. Mp = f(y)



iii). The speculative Motive:

It relates to the desire of the people to hold cash in order to take advantage of market movements regarding the future. Ms = f(i).

- The rate of interest would increase from O 1 to O11.
- ➤ The supply of money remains constants.
- \triangleright Total demand for money = Mt + Mp + Ms

Demand for money = supply of money at equilibrium point:

- * Equilibrium point 1 = E = LP = M2 = I = Rate of Interest(1)
- * Equilibrium point $2 = E_1 = L_1P_1 = M2 = I_1 = Rate$ of Interest(2)

@*@*@*@*@*@

CHAPTER 7

INDIAN ECONIMY

I. Multiple Choice Q	Questions			
1. The main gold mine r	egion in Karnataka is .	•••••		
a. Kolar	b. Ramgiri	c. Anantpur	d. Cochin	
2. Economic growth of a	a country is measured b	y national income indicated	by	
a. GNP	b. GDP	c. NNP	d. Per capita income	
3. Which one of the follo	owing is a developed na	tions?		
a. Mexico	b. Ghana	c. France	d. Sri Lanka	
4. The position of Indian	n Economy among the o	other strongest economies in	the world is	
a. Fourth	b. Seventh	c. Fifth	d. Tenth	
5. Mixed economy mean	ns			
a. Private sectors a	and banks	b. Co-existence of F	Public and Private sectors	
c. Public sectors as	nd banks	d. Public sectors onl	y	
6. The weakness of Indi	an Economy is			
a. Economic disp	arities	b. Mixed economy	b. Mixed economy	
c. Urbanisation		d. Adequate employs	ment opportunities	
7. A scientific study of the	he c <mark>haracteristic</mark> s of po	pulation is		
a. Topography	b. Demography	c. Geography	d. Philosophy	
8. The year 1961is know	n as			
a. Year of small di	ivide Line	b. Year of Populati	on Explosion	
c. Year of Urbanis	ation	d. Year of Great Div	ride	
9. In which year the pop	oulation of India crossed	d one billion mark?		
a. 2000	b. 2001	c. 2005 d. 199	91	
10. The number of death	hs per thousand popula	tion is called as		
a. Crude Death R	Rate	b. Crude Birth Rate		
c. Crude Infant Ra	ite	d. Maternal Mortalit	y Rate	
11. The number of birth	s per thousand populat	ion is called as		
a. Crude death rate	b. Mortality rate	c. Morbidity rate	d. Crude Birth Rate	
12. Density of population	n =			
a. Land area / Total P	opulation	b. Land area / Emplo	oyment	
c. Total Population	Land area of the regio	n d. Total Population /	Employment	
13. Who introduced the	National Development	Council in India?		
a. Ambedkar	b. Jawaharlal Nehr	c. Radhakrishanan	d. V.K.R.V. Rao	
14. Who among the follo	owing propagated Gand	lhian Ecomomic thinkings.		
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c. JC Kumarappa d. A.K.Sen

15. The advocate of democratic socialism was

a. Jawaharlal Nehru

a Jawaharlar Nehru

b. P.C. Mahalanobis

c. Dr. Rajendra Prasad

d. Indira Gandhi

16. Ambedkar the problem studied by in the context of Indian Economy is

b VKRV Rao

a. Small land holdings and their remedies

b. Problem of Indian Currency

c. Economics of socialism

d. All of them

17. Gandhian Economics is based on the Principle

a. Socialistic idea

b. Ethical foundation

c. Gopala Krishna Gokhale

d. Dadabhai Naoroji

18. V.K.R.V Rao was a student of

a. J.M. Keynes

b Colin Clark

c. Adam smith

d Alfred Marshal

19. Amartya Kumara Sen received the Nobel prize in Economics in the year

a. 1998

b. 2000

c. 2008

d. 2010

20. Thiruvalluvar economic ideas mainly dealt with

a. Wealth

b. Poverty is the curse in the society

c. Agriculture

d. All of them

II. ANSWER THE FOLLOWING QUESTIONS IN ONE OR TWO SENTENCES.

21. Write the meaning of Economic Growth.

A country's economic growth is usually measured by national income, indicated by Gross domestic Product.

22. State any two features of developed economy.

- ♣ High national income
- ♣ High per capita income
- ♣ High standard of living
- Full employment

23. Write the short note on natural resources.

- ♠ Any stock or reserve that can be drawn from nature is a natural resource.
- ♠ The major natural resources are land, forest, water, mineral and energy.

24. Point out any one feature of Indian Economy.

- Indian economy is a mixed economy.
- This means both private and public sectors co-exist and functions smoothly.

25. Give the meaning of non-renewable energy.

- As the name suggests, the sources of energy which cannot be renewed or re-used are called non-renewable energy resources.
- Example: Coal, oil, gas, etc...

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26. Give a short note on Sen's 'Choice of Technique'.

It is a research work where he argued that in a labour surplus economy, generation of employment cannot be increased at the initial stage by the adaptation of capital-intensive technique.

- Sen's

27. List out the reasons for low per capita income as given by V.K.R.V. Rao.

- Uneconomic holdings with sub-divisions and fragmentation
- Low levels of water availability for crops
- Excess population pressure on agriculture due to the absence of alarge industrial sector.
- Absence of capital

III. ANSWER THE FOLLOWING QUESTIONS IN ONE PARAGRAPH.

28. Define Economic Development.

- * It is indicated not just by GDP, but by an increase in citizens quality of life or well beings.
- ♣ The quality of life is being assessed by several indicies such as Human Development Index, Physical Quality of Life Index and Gross national happiness index.

29. State Ambedkar's Economic ideas on agricultural economics.

- In 1918, Ambedkar published a paper Small Holding in India and their Remedies.
- ♦ Citing Adam Smith's Wealth of Nations, he made a fine distinction between consolidation of Holdings and Enlargement of Holdings.

30. Write a short note on village sarvodhaya.

- According to Gandhi, Real Indai was to be found in village and not in towns or cities.
- So he suggested the development of self-sufficient, self dependent villages.
- Sarvodaya is a Sanskrit term meaning universal uplift or progress of all.

31. Write the strategy of Jawaharlal Nehru in India's planning.

- ❖ The plan was essentially an integrated approach for development
- ❖ The essence of planning is to find the best way to utilize all resources of manpower, of money and so on.
- **Economic growth on a self-accelerating growth.**

32. Write the V.K.R.V.Rao's contribution on multiplier concept.

- Rao's examination of the interrelation between investment, income and multiplier in an under developed economy.
- Dr.Rao argued that whereas a primary increase in investment would take place, a subsequent, secondary and territory affects through the expansion of output in the consumption goods sector would not take place.
- Consequently, the multiplier process would not ne operation.

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33. Write a short note on Welfare Economics given by Amartya Sen.

- The distribution of income among the persons below the poverty line is to be taken into account.
- The concept of capabilities developed by sen has been cited as abetter index of wellbeing than commodities or utilities.
- The concept of entitlement items like nutrition, food, medical and health care, employment, security of food supply in times of famine etc.

34. Explain Social infrastructure.

- To those structures which are improving the quality of manpower and contribute indirectly towards the growth of an economy.
- These structures are outside the system of production and distribution.
- For example, schools, colleges, hospitals and other civic amenities.

IV. ANSWER THE FOLLOWING QUESTIONS IN ABOUT A PAGE

35. Explain the strong features of Indian economy

i). India has a mixed economy

- **★** Indian economy is a typical example of mixed economy.
- **★** This means both private and public sectors co-exist and function smoothly.

ii). Agriculture plays the key role

- Around 60% of the people in India depend upon agriculture for their livelihood.
- ♣ In fact, about 17% of our GDP today is contributed by the agricultural sector.

iii). An emerging market

- † India has a high potential for prospective growth.
- † This also makes it an emerging market for the world.

iv). Fast Growing Economy

- India's economy is well known for high and sustained growth.
- ♦ It has emerged as the world's fastest growing economy in the year 2016-17 with the growth rate of 7.1% in GDP next to People's Republic of China.

v). Demographic dividend

- The human capital of India is young.
- This means that India is a pride owner of the maximum percentage of youth.

36. Write the importance of mineral resources in India

i). Iron-Ore:

- ✓ India possesses high quality iron-ore in abundance.
- ✓ Hematite iron is mainly found in Chhattisgarh, Jharkhand, Odisha, Goa and Karnataka.

ii). Coal and Lignite

- Coal is the largest available mineral resource.
- India ranks third in the world after China and USA in coal production.

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• India is the West Bengal, Bihar, Madhya Pradesh, Maharashtra, Odisha and Andhra Pradesh.

iii). Bauxite

• Major reserves are concentrated in the East Coast bauxite deposits of Odisha and Andhra Pradesh.

iv). Crude Oil

• Oil is being explored in India at many places of Assam and Gujarat.

v). Gold

- India possesses only a limited gold reserve.
- † There are only three main gold mine regions—Kolar Goldfield, Hutti Goldfield and Ramgiri Goldfield.

37. Bring out Jawaharlal Nehru's contribution to the idea of economic development.

- ♦ Jawaharlal Nehru, one of the chief builders of Modern India,
- He was the first Prime Minister of Independent India
- He was a great patriot, thinker and statesman.
- ♦ His views on economics and social problems are found in the innumerable speeches he made and in the books he wrote.
- Jawaharlal Nehru was a firm believer in democracy.
- Secularism is another signal contribution of Nehru to India.
- Jawaharlal Nehru was responsible for the introduction of planning in our country.

38. Write a brief note on the Gandhian economic ideas.

S.no	Gandhian Thoughts	Gandhian Economic Ideas
1	Village Republics	India lives in villages. He was interested in developing the villages as
		self sufficient units.
2	On Machinery	Gandhi described machinery as great sin
3	Industrialization	Gandhi considered industrialism as accurse on mankind.
4	Decentralization	He advocated a decentralized economy
5	Village sarvodaya	He suggested the development of self sufficient self dependant
		villages.

CHAPTER 8 INDIAN ECONOMY BRFORE AND AFTER INDEPENDANCE

I. MULTIPLE CHOICE	QUESTIONS		
1. The arrival of Vasco da (Gama in Calicut, India		
a. 1498	b. 1948	c. 1689	d. 1849
2. In 1614 Sir Thomas Roe	was successful in getting per	mission from	
a. Akbar	b. Shajakan	c. Jahangir	d. Noorjakhan
3. The power for governan	ce of India was transferred	l from the East India	Company (EIC) to the
British crown in			
a. 1758	b. 1858	c. 1958	d. 1658
4. Ryotwari system was init	tially introduced in		
a. Kerala	b. Bengal	c. Tamil Nadu	d. Maharastra
5. First World War started	in the year		
a. 1914	b. 1814	c. 1941	d. 1841
6. When did the Governme	nt of India declared its first	Industrial Policy?	
a. 1956	b. 1991	c. 1948	d. 2000
7. The objective of the Indu	s <mark>tr</mark> ial Policy 1956 was		
a. Develop heavy industrial	tries	b. Develop agricultura	al sector only
c. Develop private sector	only	d. Develop cottage in	dustries only
8. The industry which was	de-reserved in 1993 ?	ரின் உயிர்நாடி	
a. Railways	3	b. Mining of copper	and zinc
c. Atomic energy		d. Atomic minerals	
9. The father of Green Rev	olution in India was	••	
a. M.S. Swaminathan	b. Gandhi	c. Visweswaraiah	d. N.R. Viswanathan
10. How many commercial	banks were nationalized in	1969 ?	
a. 10	b. 12	c. 14	d. 16
11. The main objective of n	ationalization of banks was	•••••	
a. Private social welfare	b. Social welfare	c. To earn	d. Industries monopoly
12. The Planning Commissi	ion was setup in the year	•	
a. 1950	b. 1955	c. 1960	d. 1952
13. In the first five year pla	n, The top priority was give	n to Sector.	
a. Service	b. Industrial	c. Agriculture	d. Bank
14. Tenth Five year plan pe	eriod was		
a. 1992-1997	b. 2002-2007	c. 2007-2012	d. 1997-2002

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d Morrisd.Biswajeet

	Š	16), India ranked		
a.	. 130	b. 131	c. 135	d. 145
16. A	nnual Plans formed	in the year		
a.	. 1989-1991	b. 1990-1992	c. 2000-2001	d. 1981-1983
17. T	he Oldest large scale	industry in India		
a	. cotton	b. jute	c. steel	d. cement
18. H	uman development i	ndex (HDI) was develo	oped by	
a.	. Jawaharlal Nehru	b. M.K. Gandhi	c. Amartiya Sen	d. Tagore
19. Tl	he main theme of the	Twelth Five Year Plan	n	
a.	a. faster and more inclusive growth		b. growth with socia	al Justice
c.	socialistic pattern of	society	d. faster, more inclusi	ive and sustainable growtl
20. T	he PQLI was develoj	ped by		
a.	. Planning Commissio	n	b. Nehru	

II. ANSWER THE FOLLOWING QUESTIONS IN ONE OR TWO SENTENCES.

21. What are the Phases of colonial exploitation of India?

* Period of merchant capital

c. Morris

- * Period of Industries capital
- * Period of finance capital

22. Name out the different types of land tenure existed in India before Independence.

- Zamindar system
- Mahalwari system
- Ryotwari system

23. State the features that distinguish a land tenure system from other system.

- ♣ Who owns the land
- ♣ Who cultivate the land
- ♣ Who is responsible for the land

24. List out the weaknesses on Green Revolution.

- Indian agriculture was still a gamble of the monsoon.
- Wide spread unemployment among agricultural laborers
- The income gap between large

25. What are the objectives of Tenth five year plan?

★ It aimed to reduce the poverty to 15% by 2012

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★ Its growth target was 8.0% but it is achieved only 7.2%

26. What is the difference between HDI and PQLI?

S.No	Basic	PQLI	HDI	
1	Meaning It refers to overall well		It refers to composite measures of economic	
		being of people	to find out the quality of human life.	
2	Made by	Morris D. Morris in 1979	Mahabub – Ul –Haq in 1990 for UNDP	

27. Mention the indicators which are used to calculate HDI.

- Life expectancy at birth
- Adult literacy rate
- Gross Enrolment ratio
- GDP percapita

III. ANSWER THE FOLLOWING QUESTIONS IN ONE PARAGRAPH.

28. Explain about the Period of Merchant Capital.

- The period of merchant capital was from 1757 to 1813
- The only aim of the East India Company was to earn profit.
- India had been considered as the best hunting ground for capital by ELC

29. The Handicrafts declined in India in British Period. Why?

- Through discriminatory tariff policy the British government purposefully destroyed the handicrafts.
- With the disappearance of nawabs and kings, there was no one to protect Indian handicrafts.
- Indian handicraft products could not compete with machine made products.

30. Elucidate the different types of land tenure system in colonial India.

i). Zamindar system:

Zamindar was declared as the owners of the land and they were responsible to pay the land revenue to the government.

ii). Mahalwari system:

The ownership of the land was maintained by the collective body usually the villagers which served as a unit of management.

iii). Ryotwari system:

Under this system the ownership rights of use and control of land were held by the tiller himself.

31. State the reasons for nationalization of commercial banks.

- † The main objective of nationalization was to attain social welfare.
- Nationalization of banks helped to curb private monopolies.
- Needed to encourage the banking habit among the rural populations.

32. Write any three objectives of Industrial Policy 1991.

* Reduce disparities in income and wealth

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- Higher employment generation
- ❖ Focus on development of small scale sector
- ❖ Rural industrialization

33. Give a note on Twelfth Five Year Plan.

- Its main theme is Faster, More inclusive and sustainable growth.
- Its growth rate target is 8%.
- Better performance in agricultural
- Stronger efforts at health, education and infrastructure.

34. What is PQLI?

- ♣ Morris D Morris developed the Physical quality of Life Index.
- ♣ It is a measure to calculate the quality of life.
- ♣ A scale of each indicator ranges from the number 1 to 100.

IV. ANSWER THE FOLLOWING QUESTIONS IN ABOUT A PAGE

35. Discuss about the Indian economy during British Period.

Periods under	Period	Period State of Indian Economy		
British rule				
		Aim of the East India Company was to earn profit.		
Period of	1757-1813	† The best hunting ground for capital.		
Merchant Capital		The officers of the company were unscrupulous and corrupt.		
		♦ India had become a market for British textiles.		
Period of	1513-1858	\$58 ♦ Indians were exploited.		
Industrial Capital	3.	♦ India's traditional handicrafts were thrown out of gear.		
		♣ Finance imperialism began to entrench itself.		
Period of	1858-1947	♣ Britain decided to make massive investments in various fields.		
Financial Capital		Railway construction policy of the British led to unimaginable		
		as well as uneconomic		

36. Explain the role of SSIs in economic development?

- i). Provide employment:
 - SSIs use labour intensive techniques.
 - Hence they provide employment opportunities to a large number of people.

ii). Bring Balanced Regional Development:

- ★ SSIs promote decentralized development of industries as most of the SSIs are set up in backward and rural areas.
- iii). Help in Mobilization of Local Resources:

SSIs help to mobilize and utilize local resources like small savings, entrepreneurial talent etc.

iv). Pave for Optimization of Capital

- SSIs require less capital per unit of output.
- ❖ They provide quick return on investment

v). Develop Entrepreneurship:

SSIs help to develop a class of entrepreneurs in the society.

37. Explain the objectives of nationalization of commercial banks.

- The main objective of nationalization was to attain social welfare.
- To encourage the banking habit among the rural population.
- To reduce the regional imbalances where the banking facilities were not available.
- After nationalization, new branches were opened in both rural and urban.
- Credit facilities mainly to the agriculture sector and its allied activities.

38. Describe the performance of 12th five year plan in Indi

- Its main theme is "faster, more inclusive and sustainable growth".
- Its growth rate target is 8%.

Major Objectives:

- * For growth to be more inclusive we need.
- * Better performance in agriculture.
- * Faster creation of jobs, especially in manufacturing.
- **★** Stronger efforts at health education and infrastructure

Major Achievements:

- Implementation of pandit Madan Mohan malaviya national Mission on teachers & teaching.
- Uchchatar Aavishkar Abhiyan programme to promote industry specific need based research.
- Free and compulsory education to all children in the age group of 6 to 14 years.
- Construction of school toilets under swachh vidyalaya initiative.
- Implementation of udaan programme to ensure quality education for girl child.



CHAPTER 9

DEVELOPMENT EXPERIENCE IN INDIA

I. MULTIPLE CHOICE	QUESTIONS			
1. Which of the following	is the way of Privatiz	ation?		
a. Disinvestment	b. Denationa	lization c.	Franchising	d. All the above
2. Countries today are to	be for their gro	owth.		
a. Dependent	b. Interdepe	endent c.	Free trade	d. Capitalist
3. The Arguments against	t LPG is			
a. Economic growth		b.	More investment	
c. Disparities amon	g people and regions	d.	Modernization	
4. Expansion of FDI				
a. Foreign Private In	vestment	b.	Foreign Portfolio	
c. Foreign Direct I	nvestment	d.	Forex Private Inv	estment
5. India is the largest prod	ducer of	in the world.		
a. fruits	b. gold	c. petrol	d. diesel	
6. Foreign investment incl	ludes			
a. FDI only	b. FPI and FFI	c. FDI and FPI	d. FDI and I	FFI
7. The Special Economic 2	Zones policy was ann	ounced in	041	
a. April 2000	b. July 1990	c. April 1980	d. July 1970	
8. Agricultural Produce N	Market Committee is	a	TC	
	b. Statutory body	c. Both a and b	d. non of the	ese above
9. Goods and Services Tax	x is			
a. a multi point tax	T.	_	cascading effects	11 00
c. like Value Added		· ·	-	no cascading effects.
10. The New Foreign Trac	b. 2002	c. 2010	d. 2015	
a. 2000 11. Financial Sector reform			u. 2013	
a. Insurance Sector	b. Banking Sector		d. Transport	Sector
12. The Goods and Service	Č		•	
a. 1st July 2017	b. 1st July 2016	<u> </u>	_	rv 2016
13. The new economic pol	•	2		y
a. foreign investment	•	<u> </u>	d. all the ab	ove
14. The recommendation	of Narashimham Con	nmittee Report wa	s submitted in th	e year
a. 1990	b. 1991	c. 1995	d. 2000	
15. The farmers have acce	ess to credit under Ki	san credit card sch	neme through the	following except
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a. co-operative banks	b. RRBs	c. Public secstor banks	d. all the above		
16. The Raja Chelliah Co	mmittee on Trade Po	olicy Reforms suggested the	peak rate on import duties		
at					
a. 25%	b. 50%	c. 60%	d. 100%		
17. The first ever SEZ in	India was set up at				
a. Mumbai	b. Chennai	c. Kandla d. C	ochin		
18. 'The Hindu Rate of G	rowth' coined by Ra	j Krishna refers to			
a. low rate of econo	omic growth	b. high proportion of	of Hindu population		
c. Stable GDP		d. none			
19. The highest rate of tax	x under GST is	(as on July1, 2017)			
a. 18%	b. 24%	c. 28%	d. 32%		
20. The transfer of owner	ship from public sec	tor to private sector is know	n as		
a. Globalization	b. Liberalization	c. Privatization	d. Nationalization		
II. ANSWER THE FOL	LOWING QUEST	IONS IN ONE OR TWO S	SENTENCES.		
21. Why was structur	ral reform impler	nented in Indian Econo	my?		
Indian economy resp	ponded to the crises by	y introducing a set of policies	known as structural reforms.		
22. State the reasons	s for implementing	ng LPG.			
Basic reason	s behind liberalization	n, privatization could be summ	narized as nations believe that		
globalization and na	tion – states are not ir	contradiction.			
23. State the meanin					
It means transfer of	ownership and manag	gement of enterprises from pub	olic sector to private sector.		
24. Define disinvestr	nent				
It selling of governn	nent securities of publ	ic sector undertakings to other	PSUs.		
25. Write three policy	y initiative intro	duced in 1991 – 92 to o	correct the fiscal		
imbalance.					
€ Reduction in fe	Reduction in fertilizer subsidy				
♦ Abolition of su	◆ Abolition of subsidy on sugar				
♦ Disinvestment	of a part of the govern	nment holdings			
26. State the meaning	ng of Special Eco	nomic Zones.			
• It is an area in	which business and tr	ade laws are different from the	e rest of the country.		
• Their aims incl	† Their aims include increased trade, increased investment, job creation.				

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• Scheme for Quality Assurance

harvest measures.

Mega Food Parks

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27. State the various components of Central government schemes under post -

III. ANSWER THE FOLLOWING QUESTIONS IN ONE PARAGRAPH.

28. How do you justify the merits of Privatization?

- Helps in reducing the burden on government.
- Makes the public sector units competitive.
- Greater autonomy for public sector units.
- **♦** Industrial growth

29. What are the measures taken towards Globalization?

- Import liberalization through reduction of tariff and non-tariff barriers.
- Opening the doors to FDI and FPI are some of the measures towards globalization.
- The economic activity of multinational firms and internationalization of technology

30. Write a note on Foreign investment policy?

Red carpet welcome to foreign investment and foreign technology enhanced the industrial competition and improved business, including FDI and FPI were allowed automatic permission was granted for a specified list of high technology and high-investment priority industries.

31. Give short note on Cold storage.

- India is the largest producer of fruits and second largest producer of vegetables in the world.
- ♦ Most of the problems relating to the marketing of fruits and vegetables can be traced to their perishability.
- ♦ In order to overcome this constraint, the government of India and the ministry of agriculture promulgated an order known as cold storage order 1964.

32. Mention the functions of APMC.

- **★** To promote public private partnership in the ambit of agricultural markets.
- **★** To provide market led extension services to farmer.
- **★** To bring transparency in pricing system
- **★** To promote agricultural activities

33. List out the features of new trade policy.

Free imported and exports:

Prior to 1991, in India imports were regulated from 1992, imports were regulated by a limited negative list.

Rationalization of tariff structure and removal of quantitative restrictions:

- Free imports and exports
- Reducing tariffs
- Liberalization of the exchange rate regime.

34. What is GST? Write its advantages.

- It is defined as the tax levied when a consumer buys a goods and service.
- The act came into effect on 1st July 2017.
- The Motto is "one nation, one market, one tax".

Advantages:

- Removing cascading tax effect
- Single point tax
- Higher threshold for registration
- Composition scheme for small business

IV. ANSWER THE FOLLOWING QUESTIONS IN ABOUT A PAGE

35. Discuss the important initiatives taken by the Government of India towards Industrial Policy.

Meaning:

Any government action aimed at affecting industry may be considered to be part of industrial policy which makes it a limits field.

Important initiative:

- i). Industrial Policy Resolution:
 - It ushered India as the system of mixed economy.
 - **②** Industries are classified into Public sector, Public-cum-Private sector, Controlled private Sector, private and co-operative sector.
 - This policy endeavored to protect cottage and small scale industries.

ii). Industrial Policy Resolution 1956:

- It assured a fair treatment to the private sector.
- Support and encourage cottage and small scale enterprises.
- **♦** Indignation of foreign concerns.

iii). The New industrial Policy of 1991:

- Industrial licensing will be abolished for all projects except for a short list of industries.
- The policy provides for automatic clearance for import of capital goods.

36. Explain the objectives and characteristics of SEZs.

Meaning:

It is an area in which business and trade laws are different from the rest of the country.

Objectives:

- **●** To enhance foreign investment
- **●** To increase shares in global export
- **●** To generate additional economic activity.

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- To create employment opportunities.
- To develop infrastructure facilities.

Characteristics:

- Geographically demarked area with physical security.
- Administrated by single body
- Streamlined procedures
- Having separate custom area
- Governed by more liberal economic laws.

37. Describe the salient features of EXIM policy (2015 - 2020)

- Reduce export obligations by 25% and give boost to domestic manufacturing supporting the "Make in India" concept.
- As a step to Digital India concept, online procedure to upload digitally signed document by CA/CS/Cost Accountant are developed and further mobile app for filing tax, stamp duty has been developed.
- Repeated submission of physical copies of documents available on Exporter Importer Profile is not required.
- Export obligation period for export items related to defense, military store, aerospace and nuclear energy to be 24 months.
- EXIM Policy 2015-2020 is expected to double the share of India in World Trade from present level of 3% by the year 2020. This appears to be too ambitions.



CHAPTER 10

RURAL ECONOMY

I. MULTIPLE CHOICE QUESTIONS					
1. Which is considered as the basic unit for rural areas?					
a. Panchayat	b. Village	c. Town	d. Mur	nicipality	
2. Which feature is identifi	ed with rural areas?				
a. Low population density b. Hi		b. High popula	tion density		
c. Low natural resources d. I		d. Low human	resources		
3. Identify the feature of rural economy.					
a. Dependence on agriculture b.		b. High popula	b. High population density		
c. Low level of population	on	d. Low level of	d. Low level of inequality		
4. What percentage of the	total population live	in rural area, as	per 2011 cen	ses?	
a. 40	b. 50	c. 60	d. 70		
5. How do you term people	e employed in excess	over and above	the requirem	ents?	
a. Unemployment	b. Un	deremployment	or Disguised	Unemployment	
c. Full employment	d. Sel	f-employment			
6. What is the term used to	o <mark>denote</mark> the <mark>c</mark> oexisten	ce of two differ	ent features i	n an economy?	
a. Technology	b. Dependency	c. Dual	ism	d. Inequality	
7. The process of improvin	g the rural areas, ru	ral people and r	ural living is	defined as	
a. Rural economy	b. Rural economics	c. Rural	employment	d. Rural development	
8. Identify the agriculture related problem of rural economy.					
a. Poor communication	b. Small size of land	lholding c. Rui	ral poverty	d. Poor banking network	
9. The recommended nutr	itional intake per per	son in rural are	as.		
a. 2100 calories	b. 2100 calories	c. 2300	calories	d. 2400 calories	
10. Indicate the cause for rural poverty.					
a. Lack of non-farm employment b. High employment					
c. Low inflation rate d. High investment.					
11. What is the other name for concealed unemployment?					
a. Open b. Dis	sguised c. Sea	sonal	d. Rural		
12. How do you term the employment occurring only on a particular season?					
a. Open b. Dis	guised c. Sea	sonal	d. Rural		
13. Identify an example for rural industries?					
a. Sugar factory b. Mat making industry c. Cement industry d. Paper industry					
14. How much share of rural families in India is in debt?					
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a. Half

b One fourth

c Two third

d. Three fourth

15. Identify the cause for rural indebtedness in India.

a. Poverty

b. High population

c. High productivity

d. Full employment

16. In which year, Regional Rural Banks came into existence?

a. 1965

b. 1970

c. 1975

d. 1980

17. Identify the year of launch of MUDRA Bank?

a. 1995

b. 2000

c. 2010

d. 2015

18. Identify the year in which National Rural Health Mission was launched.

a. 2000

b. 2005

c. 2010

d. 2015

19. Identify the advantages of rural roads.

a. Rural marketing

b. Rural employment

c. Rural development

d. All the above

20. "An Indian farmer is born in debt, lives in debt, dies in debt and bequeaths debt"-who said this?

a. Adam Smith

b. Gandhi

c. Amartya Sen

d. Sir Malcolm Darling

II. ANSWER THE FOLLOWING QUESTIONS IN ONE OR TWO SENTENCES

21. Define Rural Economy.

- Rural areas are geographical areas located outside towns and cities.
- Rural economy refers to village and rural community refers to people living in village.

22. What do you mean by Rural Development?

Rural development is a process of improving the rural areas, rural people and rural living.

23. Rural Poverty - Define.

The situation in which an individual fails to earn sufficient income to buy the basic minimum of subsistence.

- Poverty in India

24. Define Open Unemployment.

- Unemployed persons are identified as they remain without work.
- ♦ This type of unemployment is found among agricultural labors.

25. What is meant by Disguised Unemployment?

In rural areas many are employed below their productive capacity and even if they are withdrawn from work the output will not diminish.

26. Define Cottage Industry.

- It's generally associated with agriculture and provide both part-time and full time jobs in rural areas.
- Example: Pottery, Coir products

27. What do you mean by Micro Finance?

It is financial service that offers loans savings and insurance to entrepreneurs and small business owners who do not have access to traditional sources of capital like banks or investors.

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28. State any two causes of housing problem in rural areas.

- Rapid adaptation of nuclear families.
- Lack of proper water supply
- Lack of good sanitation
- Lack of proper disposal of sewage.

29. Define Rural Electrification.

The main aims of rural electrification are to provide electricity to agricultural operations and to enhance agricultural productivity.

30. State any two factors hindering Rural Electrification in India.

- Lake of funds
- Interstate disputes
- **②** Uneven terrain
- High transmission loss

III. ANSWER THE FOLLOWING QUESTIONS IN ABOUT A PARAGRAPH EACH

31. State the importance of Rural Development.

- A major share of population contributes are very much supportive for the nation building activities.
- The rural economy supports the urban sectors
- Improvements in education health and sanitation in villages can help avoid many urban problems.
- Provide gainful employment in rural areas.
- Rural urban migration can be reduced.

32. Explain the causes for Rural Backwardness.

- The distribution of land is highly skewed in rural areas.
- Non-farm employment opportunities do not match the increasing labour force.
- Lack of public sector investment on human resource development.
- Low productivity of rural labour.

33. Enumerate the remedial measures to Rural Poverty.

- **●** Creation of employment.
- To help the poor to become more productive.
- Necessary changes in the economic structure.
- **6** Control the unproductive expenditures by villagers
- **●** Effective implementation of assets.

34. What are the remedial measures for Rural Unemployment?

To reduce the seasonal unemployment rural people should be encouraged to adopt subsidiary occupations.

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- Rural works programme such as construction and maintenance of roads, digging of drains, canals, etc.
- The increased cropping intensity creates additional demand for labour.
- To provide employment new industries should be set up in rural areas.

35. Write a note on Regional Rural Banks.

- Regional rural banks came into existence in 1975.
- At present there are 64 regional rural banks in India.
- To develop rural economy by providing credit.

36. Mention the features of SHGs.

- ❖ SHG is generally an economically homogeneous group formed through a process of self-selection based upon the affinity of its members.
- ❖ Most SHGs are women's groups with membership ranging between 10 and 20.
- SHGs have well-defined rules and by-laws, hold regular meetings and maintain records and savings and credit discipline.
- SHGs are self-managed institutions characterized by participatory and collective decision making.

37. List out the objectives of MUDRA Bank.

- * Regulate the lender and the borrower of microfinance.
- **★** Bring stability to the microfinance system.
- ★ Lend money to small business, retailers, self help groups and individuals
- **★** Introduce a system of performance rating.

IV. ANSWER FOR EACH QUESTION IN ABOUT A PAGE

38. 'The features of Rural Economy are peculiar'- Argue.

Meaning:

Rural economy refers to villages and rural community refers to people living in villages.

Features:

i). Dependence on Agriculture:

The rural economy depends much on nature and agricultural activities.

ii). life on Rural People:

Lifestyles in villages are very simple.

iii). Population Density:

Population density measured by number of persons living per sq.km is very low and houses are scattered in the entire villages.

iv). Poverty:

About 22 crores of people in rural areas are poor and live below the poverty line.

v). Employment:

Exists unemployment seasonal unemployment and under employment in rural areas.

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39. Discuss the problems of Rural Economy.

- The problems related to individuals and their standard of living consists of illiteracy etc.
- Agricultural problems as one lakh excepted awareness, knowledge, skill and attitude, unavailability of inputs and so on.
- Poor infrastructure facilities like water, electricity, transport, educational institutions, communication, health and etc.
- The economic problems related to rural areas are inability to adopt high cost technology.
- Leadership among the hands of inactive and incompetent people, self interest of leaders.

40. Analyze the causes for Rural Indebtedness.

Meaning:

Rural indebtedness refers to the situation of the rural people unable to repay the loan accumulated over a period.

Causes:

i). Poverty of Farmers:

The vicious circle of poverty forces the farmers to borrow for consumption, cultivation and celebrations.

ii). Failure of Monsoon:

It is a curse to the farmers and they have to suffer due to the failure of nature.

iii). Litigation:

Due to land disputes litigation in the court compels them to borrow heavily.

iv). Money lenders and High rate of Interest:

The rate of interest charged by the local money lenders is very high and the compounding of interest leads to perpetuate indebtedness of the farmer.

CHAPTER 11 TAMILNADU ECONOMY

I. Multiple Choice (Questions			
1. In health index, Tami	l Nadu is ahead of			
a) Kerala	b) Punjab	c) Gujarat	d) all the ab	ove
2. In sex ratio, Tamil Na	du ranks			
a) first	b) second	c) third	d) fourth	
3. Tamil Nadu is rich in				
a) Forest resource	b) human resource	c) mineral resource	d) all the ab	ove
4. The main source of ir	rigation in Tamil Nadu	is		
a) river	b) tank	c) well	d) canals	
5. Knitted garment prod	luction is concentrated i	in		
a) Coimbatore	b) Tiruppur	c) Erode	d) Karur	
6. Which of the followin	g is wrongly matched?			
a) Gateway of Tamil N	Jadu – Thoothukudi	b) Home text	tile city - Ero	de
c) Steel city – Salem		d) Pump city – Coimbatore		
7. Which of the followin	g cit <mark>ie</mark> s does no <mark>t</mark> have in	ternational airport?	G	
a) Madurai	b) Tiruchirappalli	c) Paramaku	ıdi	d) Coimbatore
8. TN tops in the produ	ction of the following cr	ops except	ISITIO.	
a) Banana	b) Coconut	c) plantation		d) cardamom
9. Largest area of land is used in the cultivation of				
a) Paddy	b) sugarcane	c) Groundnut		d) Coconut
10. In literacy rate, TN	ranks			
a) second	b) fourth	c) sixth		d) eighth
11. In investment propo	sals filed by MSMEs, T	N ranks		
a) I	b) II	c) III		d) IV
12. Which district in TN	has the highest sex rati	io?		
a) Nagapattinam	b) Nilgiris	c) Tiruchirap	palli	d) Thanjavur
13. Which district has th	ne lowest child sex ratio	?		
a) Madurai	b) Theni	c) Ariyalur		d) Cuddalore
14. Which Union Territo	ory has the highest sex r	ratio?		
a) Chandigarh	b) Pondicherry	c) Lakshadee	p d)	Andaman Nicobar
15. The largest contribution to GSDP in Tamil Nadu comes from				
PREPARED BY P.VAHE	ESWARAN M COM M DHI	I DCA RED		Page 63

a) agriculture b) industry c) mining d) services 16. In human development index, TN is ranked a) Second b) fourth c) sixth d) seventh 17. SPIC is located in b) Madurai a) Chennai c) Tuticorin d) Pudukkottai 18. The TICEL park is a) Rubber Park b) Textile park c) Food park d) Bio park 19. In India's total cement production, Tamil Nadu ranks a) third b) fourth c) first d) second 20. The Headquarters of Southern Railway is at a) Tiruchirappalli b) Chennai c) Madurai d) Coimbatore.

II. ANSWER THE FOLLOWING QUESTIONS IN ONE OR TWO SENTENCES.

21. State any two districts with favorable sex ratio. Indicate the ratios.

S.No	District	Sex Ratio	
1	Nilgiris	1041	
2	Thanjavur	1031	Sou
3	Nagapatinam ()	1025	
4	Tirunelveli	1024	10

Source: Census of India 2011

22. Define GSDP.

- ▲ It refers to the total money value of all the goods and service produced annually in the state.
- ▲ Tamil Nadu is the 2nd largest economy in India.

23. Mention any four food crops which are favorable to Tamil Nadu.

- ♦ Rice ♦ Corn ♦ Oil seeds
- ♦ Kambu♦ Sugarcane

24. What are major ports in Tamil Nadu?

- Chennai
- Ennore
- Tuticorin

25. What is heritage tourism?

It is traveling to experience the places artifacts and activities that authentically represent the stories and people of the past and present.

26. What are the nuclear power plants in Tamil Nadu?

- **♦** Kalpakkam Nuclear power plant
- **♦** Koodankulam Nuclear Power plant

27. Define Micro industry

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Enterprise with the capital investment not exceeding 25 lakhs is called micro industry.

- MSMED act 2006

III. ANSWER THE FOLLOWING QUESTIONS IN ONE PARAGRAPH.

28. Write a note on mineral resources in Tamil Nadu.

- It has a few mining projects based on titanium, Lignite, Magnesite, Graphite, Limestone, Granite and Bauxite.
- The first one is the Neyveli lignite corporation that has led development of large industrial complex around neyveli in cuddalore district.
- Magnesite mining is at Salem from which mining of bauxite ores are carried out at Yercard.

29. Explain GSDP in Tamil Nadu.

- **★** Tamil Nadu is a second largest economy in India with a GSDP of Rs. 207.8 billion in 2016-17.
- **★** The GSDP of Tamil nadu is equal to the GDP of Kuwait on nominal term and GDP of UAE on PPP terms
- **★** The GSDP of Tamil Nadu is far higher compared to many countries as show below.
- **★** This is mainly due to population effect.

30. Describe development of textile industry in Tamil Nadu.

- Tamilnadu is the largest textile hub of India.
- SEMPLOYMENT to an estimated 35 million people.
- The textile sector contributes to 14% of the manufacturing sector.

31. Compare productivity of any two food crops between Tamil Nadu and India.

- **☼** The government of Tamil Nadu lays emphasis on agricultural production and productivity.
- ★ As a result, Tamilnadu tops in productivity in food crops as well as non-food crops among the states in India.

32. Explain the prospect for development of tourism.

- Tamil Nadu has since ancient past been a hub for tourism.
- In recent years the state has emerged as one of the leading tourist destinations for both domestic and foreign tourists.
- The state currently ranks the highest among Indian state with about 25 crore arrivals.

33. What are the renewable sources of power in Tamil Nadu?

i). Hydel Energy:

- There are about 20 hydro electric units in Tamilnadu.
- The prominent units are Hundah, Mettur, Periyar, Parson Valley.

ii). Solar Energy:

• Southern Tamil Nadu is considered as one of the most suitable region in the country for developing solar power projects.

iii). Wind Energy:

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- Tamilnadu has the highest installed wind energy capacity in India.
- The state has very high quality of off share wind energy.

34. Describe the performance of Tamil Nadu economy in health

- Tamilnadu has a three tier health infrastructure comprising hospitals, primary health centers, health units, community health centre and sub-centers.
- As of March 2015, the state had 34 districts hospitals, 229 sub divisional hospitals, 1254 primary health centers.

IV. ANSWER THE FOLLOWING QUESTIONS IN ABOUT A PAGE

35. Describe the qualitative aspects of population.

i). Density

- **★** The density of population which measures population per sq.km is 555 in 2011 against 480 in 2001.
- * Tamil Nadu ranks 12th in density among the Indian States and 382 is the national average.

ii). Sex ratio

- A Balanced sex ratio implies improvement in quality of life of female population.
- ♣ The sex ratio in Tamil Nadu is nearing balance with 995 which is far better compared to most of the States and all India level.
- * Tamil Nadu stands third next only to Kerala state and Puduchery Union Territory in sex ratio.

iii). Maternal Mortality Rate:

Tamil Nadu has a good record of controlling MMR, ranking third with 79 against national average of 159 again half of the national average.

iv). Life Expectancy at birth:

- The average period that a person may expect to live is called life expectancy.
- However, life expectancy in India still falls short of most developed and developing nations.

v). Literacy:

❖ The literacy rate of Tamil Nadu is higher than in many States

36. Explain the various sources of energy in Tamil Nadu.

- Tamil Nadu tops in power generation among the southern states.
- Tamil Nadu is in the forefront of all other Indian States in installed capacity.
- There are about 20 hydro electric units in Tamil Nadu.
- The Kalpakkam Nuclear Power plant and the Koodankulam Nuclear power plant are the major nuclear energy plants for the energy grid.
- The thermal power plants are at Ennore, Mettur, Neyveli and Thoothukdi.
- Tamil Nadu has the higher installed wind energy capacity in India.

37. Explain the public transport system in Tamil Nadu.

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a. Road

- There are 28 national highways in the State, covering a total distance of 5,036 km.
- It ranks second in India with a share of over 20% in total road projects under operation.

b. Rail

- Tamil Nadu has a well-developed rail network as part of Southern Railway, Headquartered at Chennai.
- Tamil Nadu has a total railway track length of 6,693 km and there are 690 railway stations in the State.
- Main rail junctions in the State include Chennai, Coimbatore, Erode, Madurai, Salem, Tiruchirapalli and Tirunelveli.

c. Air

- ♦ Tamil Nadu has four major international airports.
- ♦ Chennai International Airport is currently the third largest airport in India after Mumbai and Delhi.

d. Ports

- ★ Tamil Nadu has three major ports; one each at Chennai, Ennore, and Tuticorin, as well as one intermediate port in Nagapattinam, and 23 minor ports.
- * Ennore Port was recently converted from an intermediate port to a major port.



CHAPTER 12 MATHMETICAL METHODS FOR ECONOMICS

CHAPIER 12 NIA					
I. MULTIPLE CHOICE	QUESTIONS:				
1. Mathematical Economic	s is the integration of				
a. Mathematics and	Economics	b. Economics and	Statistics		
c. Economics and Equ	uations	d. Graphs and Eco	onomics		
2. The construction of dem	and line or supply lin	e is the result of using			
a. Matrices	b. Calculus	c. Algebra d.	Analytical Geometry		
3. The first person used the	e mathematics in Ecor	nomics is			
a. Sir William Petty	b. Giovanni Ceva	c. Adam Smith d. 1	Irving Fisher		
4. Function with single inde	ependent variable is k	known as			
a. Multivariate Function		b. Bivariate Funct	b. Bivariate Function		
c Univariate Functio	on	d. Polynomial Fur	d. Polynomial Function		
5. A statement of equality b	oetween two quantitie	es is called			
a. Inequality	b. Equality	c. Equations	d. Functions		
6. An incremental change in dependent variable with respect to change in independent variable is					
known as					
a. Slope	b. Intercept	c. Variant	d. Constant		
7. $(y - y1) = m(x - x1)$ gives	the	ALIX (II) OTI			
a. Slope	b. Straight lin	ne c. Constant	d. Curve		
8. Suppose $D = 50 - 5P$. Wh	nen D is zero then				
a. P is 10	b. P is 20	c. P is 5	d. P is -10		
9. Suppose D = 150 - 50P. T	Then, the slope is				
a5	b. 50	c. 5	d50		
10. Suppose determinant of	f a matrix 0, then the	solution			
a. Exists	b. Does not ex	c. is infinity	d. is zero		
11. State of rest is a point to	ermed as				
a. Equilibrium	b. Non-Equilil	brium c. Minimum Point	d. Maximum Point		
12. Differentiation of consta	ant term gives				
a. one	b. zero	c. infinity	d. non-infinity		
13. Differentiation of xn is					
a. nx(n-1)	b. n x (n+1)	c. zero	d. one		
14. Fixed Cost is the	term in cost function	on represented in mathen	natical form.		

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b. Price

a. Middle

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d. Constant

c. Quantity

15. The first differentiation of Total Revenue function gives

- a. Average Revenue
- b. Profit
- c. Marginal Revenue
- d. Zero

16. The elasticity of demand is the ratio of

- a. Marginal demand function and Revenue function
- b. Marginal demand function to Average demand function
- c. Fixed and variable revenues
- d. Marginal Demand function and Total demand function

17. If x+y=5 and x-y=3 then, Value of x

a. 4

b. 3

c. 16

d. 8

18. Integration is the reverse process of

- a. Difference
- b. Mixing
- c. Amalgamation
- d. Differentiation

19. Data processing is done by

- a. PC alone
- b. Calculator alone
- c. Both PC and Calculator d. Pen drive

20. The command Ctrl + M is applied for

- a. Saving
- b. Copying
- c. getting new slide
- d. deleting a slide

II. ANSWER THE FOLLOWING QUESTIONS IN ONE OR TWO SENTENCES:

II. Very Short Answer Questions:

21. If
$$62 = 34 + 4x$$
 what is x?

Solution:
$$62 = 34 + 4x$$

$$62 - 34 = 4x$$

$$28 = 4x$$

23. Find the average cost function where

$$TC = 60 + 10x + 15x^2.$$

Solution:
$$TC = 60 + 10x + 15x^2$$

Formula
$$=\frac{TC}{T}$$

$$= \frac{60}{x} + \frac{10x}{x} + \frac{15x^2}{x}$$

$$= \frac{60}{100} + 10 + 15x$$

/BE

Given the demand function q = 150 - 3p, derive a function for MR.

Solution :

Demand function
$$q = 150 - 3p$$
, MR = ?

$$\frac{dp}{dp} = -3$$

$$\eta d = \frac{-p}{q} \frac{dq}{dp} = \frac{-p}{150 - 3p} (-3)$$

$$= \frac{3p}{150 - 3p}$$
MR = $p \left[1 - \frac{1}{p} \right]$

$$\eta d = \frac{P}{q} \frac{q}{dp} = \frac{P}{150 - 3p} (-3)$$

$$= \frac{3p}{150 - 3p}$$

$$MR = p \left[1 - \frac{1}{\eta d} \right] = p \left[1 - \frac{1}{\frac{3p}{150 - 3p}} \right]$$

$$= p \left[1 - \frac{(150 - 3p)}{3p} \right]$$

$$= p \left[\frac{3p - 150 + 3p}{3p} \right]$$

$$= p \left[\frac{6p - 150}{3p} \right]$$

$$= \frac{6p}{3} [p - 25]$$

$$= 2[p - 25]$$

$$MR = 2p - 50$$

24. The demand function is given by $x=20-2p-p^2$ where p and x are the price and the quantity respectively. Find the elasticity of demand for p = 2.5|Govt. MQP-2018|

Solution:

$$\eta d = \frac{p}{x} \frac{dx}{dp}$$

$$\frac{dx}{dp} = -2 - 2p$$

$$\eta d = \frac{-p}{20 - 2p - p^2} (-2 - 2p)$$

$$=\frac{2p(r+p)}{20-2p-p}$$

When
$$p = 2.5$$

$$\eta d = \frac{2(2.5)(1+2.5)}{20-2(2.5)-(2.5)}$$

$$=\frac{5(3.5)}{20-5-6.25}$$

$$=\frac{17.5}{15-6.25}$$

$$\eta d = \frac{17.5}{8.75}$$

25. Suppose the price p and quantity q of a commodity are related by the equation $q = 30 - 4p - p^2$ find

(i)
$$e_d$$
 at $p=2$

Solution:

(i)
$$\frac{dq}{dp} = (-4-2p)$$

$$\eta d = \frac{-p}{q} \left(\frac{dq}{dp} \right)$$

$$= \frac{-p}{30 - 4p - p^{2}} (-4 - 2p)$$

$$= \frac{4p + 2p^{2}}{30 - 4p - p^{2}}$$

$$= \frac{4(2) + 2(2)^{2}}{30 - 4(2)^{2} - 4} = \frac{8 + 8}{30 - 8 - 4}$$
16 16 8

$$MR = \frac{dq}{dp}(-4-2p)$$

$$R = pq$$

$$= p(30-4p-p^2)$$

$$= 30p-4p^2-p^3$$

$$MR = \frac{dR}{dp}$$

$$= 30(1)-4(2p)-3(p)^2$$

 $30 - 8p - 3p^2$

-12

What is the formula for elasticity of supply if you know the supply function? [BEQ]

Solution:

Elasticity of supply =
$$\frac{p}{q} \frac{dq}{dp}$$

$$Ps = X_0 P_0$$
 - integration of supply function within limited

$$= X_0 P_0 - \int_0^{x_0} g(x) dx$$

27. What are the Main menus of MS Word?

- Home menu
- Insert
- Page Layout
- Reference
- Review
- View

III. ANSWER THE FOLLOWING QUESTIONS IN ONE PARAGRAPH:

1. Illustrate the uses of Mathematical Methods in Economics.

- It helps to present the economic problems in a more precise form.
- It helps to explain economic concepts.
- It helps to use a large number of variables in economic analyses.

2. 29. Solve for x quantity demanded if 16x - 4 = 68 + 7x

Solution:

$$16x - 4 = 68 + 4$$

$$16x - 7x = 68 + 4$$

$$9x = 72$$

$$x = \frac{72}{9}$$

MR = Marginal Revenue =
$$\left(R, \frac{1}{q}\right)$$

R = $600q - 0.03q^2$

R = $600 - (0.03) 2(q) = 600 - 0.06q$

AR = $\frac{R}{q}$
 $\frac{600q - 0.03q^2}{q}$

$$AR = 600 - 0.03q$$

$$Average cost (AC) = \frac{Total \cdot cost}{output}$$

$$= \frac{150q + 60000}{q}$$

$$AC = \frac{150 \cancel{q}}{\cancel{q}} + \frac{60000}{q}$$

$$AC = 150 + \frac{60000}{q}$$

150

Marginal cost (MC) =
$$\frac{d}{dq}$$
 (C)
$$= \frac{d}{dq} (150q + 600)$$

MC

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4.

31. Solve the following linear equations by using Cramer's rule.

5.

32. If a firm faces the total cost function $TC = 5 + x^2$ where x is output, what is TC when x is 10?

Solution :
$$TC = .5 + (10)^2$$

$$= 5 + 100$$

$$\therefore TC = 105$$

6. 33. If TC = $2.5q^3 - 13q^2 + 50q + 12$ derive the M function and AC function.

$$\frac{dc}{dq} = \text{M.C.}$$

$$A.C = \frac{\text{Total cost}}{\text{output}}$$

$$\frac{dc}{dq} = 2.5 (3) q^2 - (13 \times 2) q + 50$$

$$M.C = 7.5q^2 - 26q + 50$$

A.C =
$$\frac{2.5 q^3 - 13q + 30q + 12}{q}$$

= $\frac{2.5 q^{3^2}}{\cancel{q}} - \frac{13q^2}{\cancel{q}} + \frac{50\cancel{q}}{\cancel{q}} + \frac{12}{q}$
 \therefore A.C = $2.5q^2 - 13q + 50 + \frac{12}{q}$

- 7. What are the steps involved in executing a MS Excel Sheet?
 - Plan the keystrokes needed to complete the tasks.
 - Click tools
 - ஒவ்வொரு மாணவனின் உயிர்நாடி Assign a name for the macro
 - Assign a shortcut key for the macro
 - Click OK
 - Perform the steps needed to create your report
 - Click on the stop button on the macro toolbar to stop recording and save the macro.

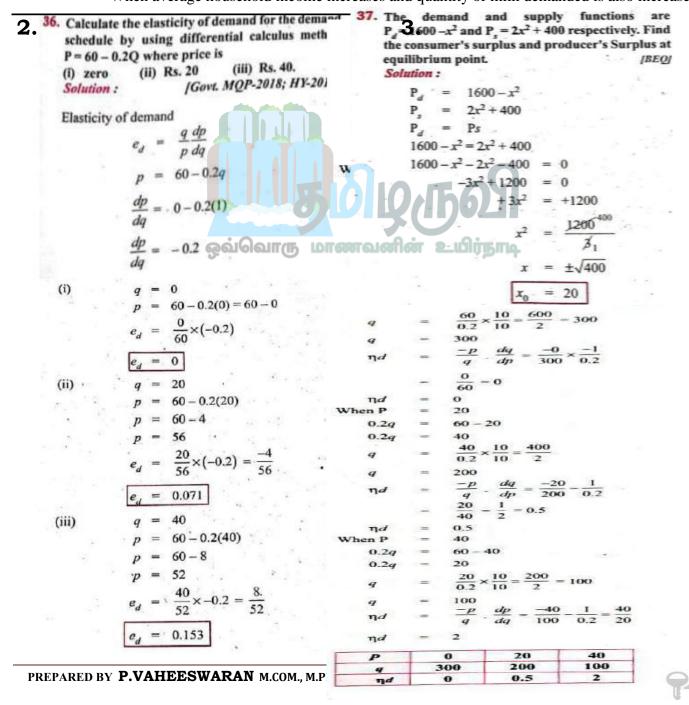
IV. ANSWER THE FOLLOWING QUESTIONS IN ABOUT A PAGE:

- 1. A Research scholar researching the market for fresh cow milk assumes that Qt= f(Pt, Y,A,N, Pc) where Qt is the quantity of milk demanded, Pt is the price of fresh cow milk, Y is average household income, A is advertising expenditure on processed pocket milk, N is population and Pc is the price of processed pocket milk.
 - (a) What does Qt = f(Pt, Y,A,N, Pc) mean in words?
 - (b) Identify the independent variables.
 - (c) Make up a specific form for this function.

(Use your knowledge of Economics to deduce whether the coefficients of the different independent variables should be positive or negative.)

- a). i). Qt is the functions of Pt, Y, A, N, Pc
 - ii). Other determinants of demands are,
 - Pt Price of fresh cow milk. Y- Average household income
 - A- Advertising expenditure on processed pocket milk.
 - N Population
 - Pc Price of processed pocket milk.
- b). i). Y and N are independent variables
 - ii). Pc depending on Pt, A and N
 - iii). A is depending on N
- c). When price of fresh cow milk increases quantity of milk demanded decreases.

When average household income increases and quantity of milk demanded is also increases.



4. What are the ideas of information and communication technology used in economics?

- ♦ Information and Communication Technology (ICT) is the infrastructure that enables computing faster and accurate.
- ♦ The following table gives an idea of range of technologies that fall under the category of ICT.

S. No	Information	Technologies	
1	Creation	Personal Computers, Digital Camera,	
		Scanner, Smart Phone	
2	Processing	Calculator, PC, Smart Phone	
3	Storage	CD, DVD, Pen Drive, Microchip, Cloud	
4	Display	PC, TV, Projector, Smart Phone	
5	Transmission	Internet, Teleconference, Video	
		conferencing, Mobile Technology, Radio	
6	Exchange	E mail, Cell phone	

