

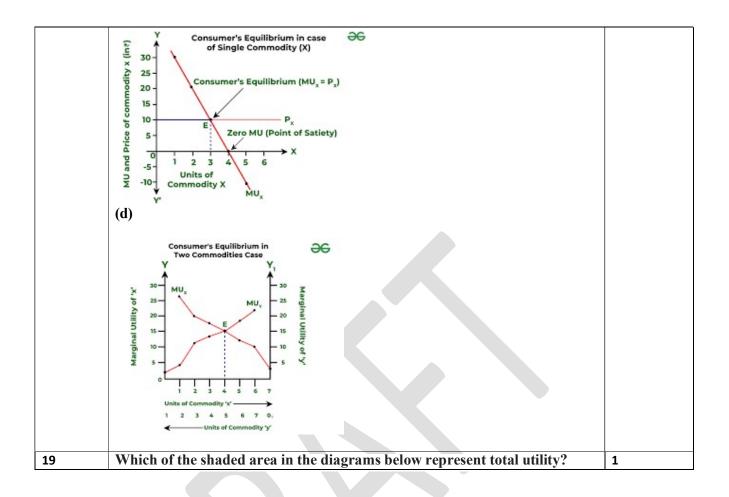
PART B: MICRO

Chapter 2 : Consumer's Equilibrium

Q. NO	QUESTION	MARKS
1	Which of the following statement is true in connection with marginal utility and	1
	total utility?	
	a) When MU is negative, TU increases at a diminishing rate.	
	b) When MU is falling but remains positive, the TU is decreasing.	
	c)When MU is zero, TU is maximum and constant.	
	d)MU and TU are proportionately increases as consumption increases.	
2	As Sakshi goes on consuming additional units of masala panipuri , her marginal	1
	utility on the golguppa will :	
	a) Increases	
	b) Decreases	
	c) May increase or decrease	
	d) None of these	
3	Monika asks Devika that which condition must be fulfilled when the price-line /	1
	budget line is drawn.	
	a) M/P ₄	
	b) M/P ₂	
	c) $M = P_x Q_x + P y Q_y$	
	d) $M > P_x Q_x + P y Q_y$	
4	If two indifference curves intersect each other, then what will be its effect on	1
	the consumer satisfaction level.	
	a) The consumer will be indifferent between the two curves.	
	b) The consumer derives more and more satisfaction from both the indifference	
	curves.	
	c) At one point, he will derive the same level of satisfaction and at another	
	point different level of satisfaction.	
	d) The curve lying above before the intersection will give him more	
	satisfaction.	
5	The slope of the typical indifference curve:	1
	a) Is a downward sloping curve and straight line.	
	b) Is a downward sloping curve and convex to the origin.	
	c) Is a downward sloping curve and concave to the origin.	
	d)Is an upward sloping curve and concave to the origin.	
6	In the case Marshallian utility analysis, the consumer equilibrium in case of	1
	several commodities attained at that point where :	
	$\underline{a})\underline{MU_x} = \underline{MU_y}$	
	$P_x P_y$	
	<u>b)</u> $\underline{MU_x} > \underline{MU_y}$	
	$P_x P_y$	
	\underline{c}) $\underline{MU_x} < \underline{MU_y}$	
	$P_x P_y$	
	<u>d</u>) Anyone of the above	

7	The conversity of the indifference energy is shown due to	1
7	The convexity of the indifference curve is shown due to:	1
	a) Increasing marginal rate of the transformation.	
	b) Increasing marginal rate of the substitution.	
	 c) Diminishing marginal rate of the transformation. d) Diminishing marginal rate of substitution 	
•	d) Diminishing marginal rate of substitution	
8	Which of the following is not an assumption for the law of diminishing	1
	marginal utility ?	
	a) Homogenous units of the commodity consumed	
	b) Continuous consumption without the time gap	
	c) Constant marginal utility of money	
_	d) Change of taste, preference and choice of the consumer.	
9	Suppose at a particular point of time , the consumer finds $MRS_{xy} > P_x / P_y$,	1
	what does it imply ?	
	a) He will buy more of good X	
	b) He will buy more of good Y	
	c) He can buy more of good X or good Y	
	d) He will not buy any good	
10	Nitesh asks Mita that can an indifference touch any axis? Mita replied that yes,	1
	it can. Is Mita right?	
	a) Yes, she might be right	
	b) No, she is wrong	
	c) Yes, she is practically right	
	d) None of the above	
11	The ratio of exchange between two goods in indifference curve analysis is	1
	shown by: - (a) The price ratio	
	(b) The indifference curve	
	(c) The indifference map	
	(d) All of the above	
12	If a consumer spends his entire income (M) on Y commodity and nothing	1
	on X commodity, he will purchase what quantity of Y commodity?	
	$(a) \frac{M}{M}$	
	Py	
	(b) 5^{55} 5	
	(c) $M\ddot{R}S > Px$	
	<i>Py</i> None of the above	
10	The statement A=B=10 Utils implies: -	1
13	(a) An ordinal measure of utility	1
	(b) An ordinal and a cardinal measure of utility	
	(c) A cardinal measure of utility	
	None of the above	
14	At the saturation point for commodity X, the MU is: -	1
	(a) Positive	-
	(b) Negative	
	(c) Zero	
	Any of the above.	
15	If the consumer is below his budget line, the consumer:-	1
	(a) Is not spending all of his income.	
	(b) May or may not spending all of his income.	
	(c) Is spending all of his income.	
	(d) Is in equilibrium	

 Assertion (A): Budget Line / Price Line is a line showing dif combinations of two goods which a consumer can attain when he s his entire income on these goods, and the market price of the good known. Reason (R): Slope of Budget Line / Price Line shows the rate at market price allows the consumer to substitute Good-X for Good-Y expressed as Px / Py (a) Both Assertion (A) and Reason (R) are true and Reason (R) 	spends ds are which
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market price allows the consumer to substitute Good-X for Good-Y expressed as <i>Px / Py</i>	
expressed as Px / Py	Y. It is
(a) Both Assertion (A) and Reason (R) are true and Reason (R)	
	is the
correct explanation of Assertion (A).	
(b) Both Assertion (A) and Reason (R) are true and Reason (R)	is not
the correct explanation of Assertion (A).	
(c) Assertion (A) is true but Reason (R) is false.	
(d) Assertion (A) is false but Reason (R) is true	
17 Which of the following utility approaches is based on the theory of A Marshall?	Alfred 1
(a) Ordinal utility approach	
(b)Cardinal utility approach	
(c)Independent utility approach	
(d) None of the above	
18 Identify the diagram of consumer equilibrium under the case of	of two 1
commodities through cardinal utility approach.	
(a)	
(4)	
30 Maximum TU	
2 TU	
5	
×	
Marginal Utility Curve Quantity (units)	
(8) 13 . +ve	
Point of Saturation Ov	
Point of Satiety (MU = Zenc)	
Deter Contraction of the Contrac	
0	
-2ve MU	
(b)	
Y TU	
Y TU	
TU/MU	
×	
$ \longrightarrow ^{ } $	
Quantity (-)MU	
Quantity (-)MU (c)	



	Price Mu (a) $P_{Mu}^{(a)}$ P_{Mu	
20	Consumed What is meant by MU of one rupee?	1
21	Why a consumer does wants to buy goods and services?	1
22	When does total utility becomes zero?	1
23	What happens at the point of satiety?	1
24	State the characteristics of marginal utility (MU) in the law of diminishing marginal utility?	1
25	Which curve is called equal satisfaction curve or iso-utility curve?	1
26	If monotonic preference of consumption increases, total utility (TU) increases or decreases?	1
27	Explain the behaviour of rational consumer?	1

28	How is total utility (TU) derived from the marginal utility?	1
29	Explain the budget line does not slope upward?	1
30	If total utility of a person increases from 10 utils to 20 utils. What is the marginal utility (MU)	1
31	What do you understand by the term utils?	3
32	What do you mean by market rate of exchange?	3
33	What is consumer surplus?	3
34	Given the price of a good and income of the consumer, how will a consumer decide as to how much quantity of the good the consumer will buy ? Use utility analysis.	3
35	A consumer consumes only two goods, say good X and good Y. At a particular print of time $P_x = Rs$. 5/- and $P_y = Rs$. 4/- and $MU_x = 50$ utils and $MU_x = 48$ utls . Is the consumer in equilibrium? If not what mechanisms should be followed for the consumer equilibrium.	3
36	Higher indifference curve represents higher level of satisfaction . Justify the statement with reference to monotonicity of preference principle with a suitable diagram.	3
37	State with reasons if the following statements are true or false: 1. At a grand family get-together party you go on eating and eating since you	3
	have not to pay.	
	 As we consume more units of a commodity, our total utility from its consumption keeps falling. Total Utility remains the same, whether Marginal Utility is positive or 	
38	negative.	
	negative. Suppose a consumer wants to consume two goods which are available only in integer units. The two goods are equally priced at Rs 10 and the consumer's income is Rs 40. Write down all the bundles that are available to the consumer. Among the bundles that are available to the consumer. Identify those which cost her exactly 40. Read the following and answer the questions on the basis of the same: -	3

	total of utility derived from the consumption of all the units of a commodity.	
	Marginal Utility (MU) It refers to additional utility on account of the	
	consumption of an additional unit of a commodity.	
	Q.(I) Utility in economics means: - (a) Want satisfying power of a commodity	
	(a) want satisfying power of a commonly (b) Pleasure	
	(c) Happiness	
	(d) Usefulness	
	Q.(II) Marginal utility is: -	
	(a) Total minus average utility	
	(b) Addition to total utility	
	(c) Total plus average utility	
	(d) Total utility divided by the number of units	
	Q. (III) How is total utility derive from marginal utility?	
40		4
	A consumer wants to consume two goods. The prices of the two goods are	
	Rs 4 and Rs 5 respectively. The consumer's income is Rs 20.	
	1. Write down the equation of the budget line.	
	2. How much quantify of good 1 can the consumer consume if she spends	
	her entire income on that good?	
	3. How much of good 2 can she consume if she spends her entire income on	
	that good?	
	4. What is the slope of the budget line?	
41		4
41	'Higher indifference curve represents higher level of satisfaction to the	4
	consumer'. Explain the statement, also state the underlying assumption	
	related to this property of indifference curve.	
42	How many chocolates will a consumer have, if they are available free of	4
	cost? Also define the relationship between TU and MU with an appropriate	
	labeled diagram.	
43	Explain the following statements:-	4
	In indifference curve, increase of one good requires decrease of other goods and	
	vice-versa.	
44	Explain the law of Equi-marginal utility or Gossen's second law in brief.	4
45	Explain with the help of a diagram:- total utility is summation of marginal utility.	4
46	Briefly explain the law of the diminishing marginal utility.	4

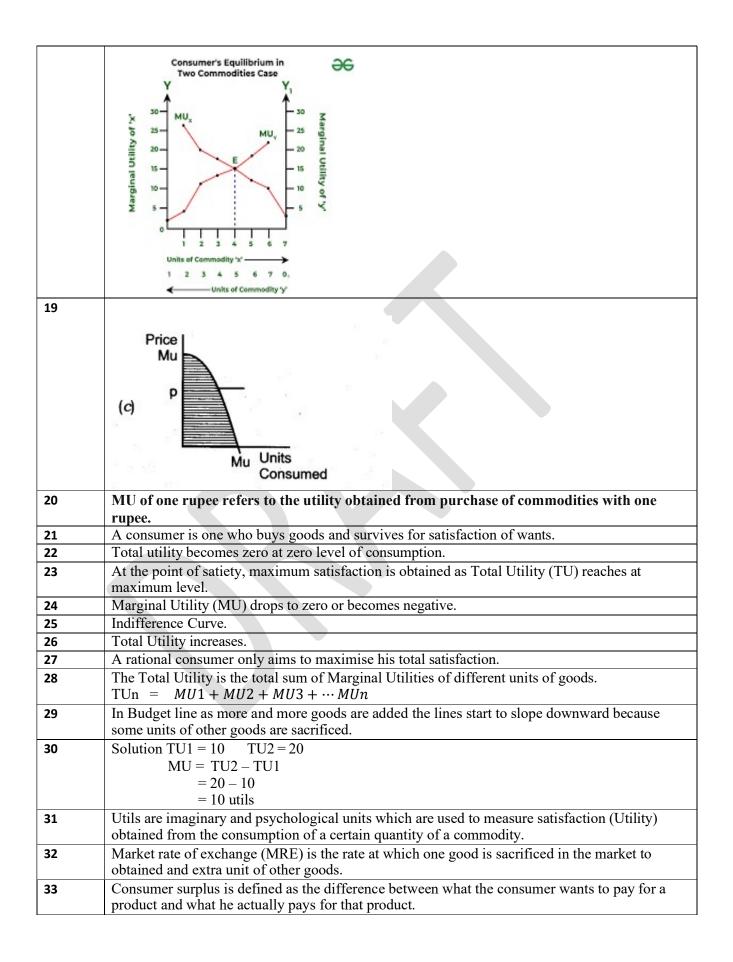
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47	With an hypothetical example and diagram , explain the relationship between marginal utility and total utility.	4
48	Why does an indifference slope downwards from left to right? Cite the reasons.	4
49	How is consumer equilibrium in case of commodities under Marshallian utility analysis differ from Hicksian Indifference curve analysis.	6
50	Why does a consumer attain equilibrium under indifference analysis at point of tangency between indifference curve and price line?	6
51	Diminishing marginal rate of substitution operates in the indifference curve analysis. Do you agree? If so, justify it.	6
52	Derive the inverse relation between price of the good and its demand from	6
	single commodity equilibrium condition "marginal utility = price".	
53	Why is an Indifference curve generally convex to the origin? And justify the	6
	validation of negatively sloped of Indifference curve.	
54	Once a consumer reaches the point of equilibrium, he would not like to change his allocation of expenditure on good X and Y even if price of one commodity changes. Do you agree? Give reasons.	6
55	Read the following Case Study carefully and answer the questions on the basis of the same:	6
	 If our income rises, we generally tend to buy more of the goods. More income would mean more pens, more shirts, more shoes, more cars and so on. But there are exceptions. If initially, you are buying coarse grain, how would you take your increase in income now? Perhaps, as a first step, you would discard the consumption of inferiors. Surely, this happens in the deserts of Rajasthan where the rich minority eats wheat while the poor majority eats Bajra as their staple food. 1. The law of demand does not apply togoods. (Normal/ Giffen) 2. Inferior goods are those whose income effect is (Negative/ Positive) 3. A fall in income of the consumer (in case of normal goods) will cause 	

	 4. As a result of rise in consumer's income, the demand curve for coarse-grain (inferior good) 1. becomes a horizontal straight line 2. becomes a vertical straight line 3. shifts to the right 4. shifts to the left 	
56	Read the following Case Study carefully and answer the questions on the basis of the same: Census of India is a decennial publication of the Government of India. It is published by Registrar General and Census Commissioner, Under Ministry of Home Affairs, Government of India. It is a very comprehensive source of secondary data. It relates to population size and various aspects of demographic changes in India. Under the Ministry of Home Affairs, Government of India. It may be of historical interest that though the population census of India is a major administrative function; the Census Organisation was set up on an ad-hoc basis for each Census till the 1951 Census. The Census Act was enacted in 1948 to provide for the scheme of conducting population census with duties and responsibilities of census officers. The Government of India decided in May 1949 to initiate steps for developing systematic collection of statistics on the size of the population, its growth, etc., and established an organisation in the Ministry of Home Affairs under Registrar General and ex-Officio Census Commissioner, India. 1. Data originally collected in the process of investigation are known as(Primary data/ Secondary data). 2. The problem of double conclusion arises in(indirect oral investigation/ direct personal interview). 3. Post independence, the first census of India was conducted in(1949/1951) 4. Census of India is carried out once inyears. (10/ 5)	6
57	Read the following Case Study carefully and answer the questions on the basis of the same: Unpublished data or literature is known as grey literature in research. (The term 'grey literature' also includes data published in a non-commercial form, such as a conference proceeding.) These data are collected by the government organisations and others, generally for their self-use or office record. Unpublished data is useful mainly in secondary research, such as literature reviews and systematic reviews. It provides pointers to new research and perhaps also research paths to avoid. Preprints are a growing form of unpublished data these days and have proved very useful in guiding research in critical areas such as COVID-19. Published sources of secondary data are government publications, semi-government publications, publications of research institutions, international publications etc. 1data are collected from published or unpublished reports. (Primary/ Secondary) 2. In the case of a, answers are to be written by the enumerators specifically hired for the purpose. (Questionnaire/ Schedule)	6

3publish data relating to education, health, births and deaths.
(Government publications/ Semi- Government Publications)
4. 76th round of NSSO was on(Persons with disabilities and drinking water/ density of population)

<u>ANSWER</u>

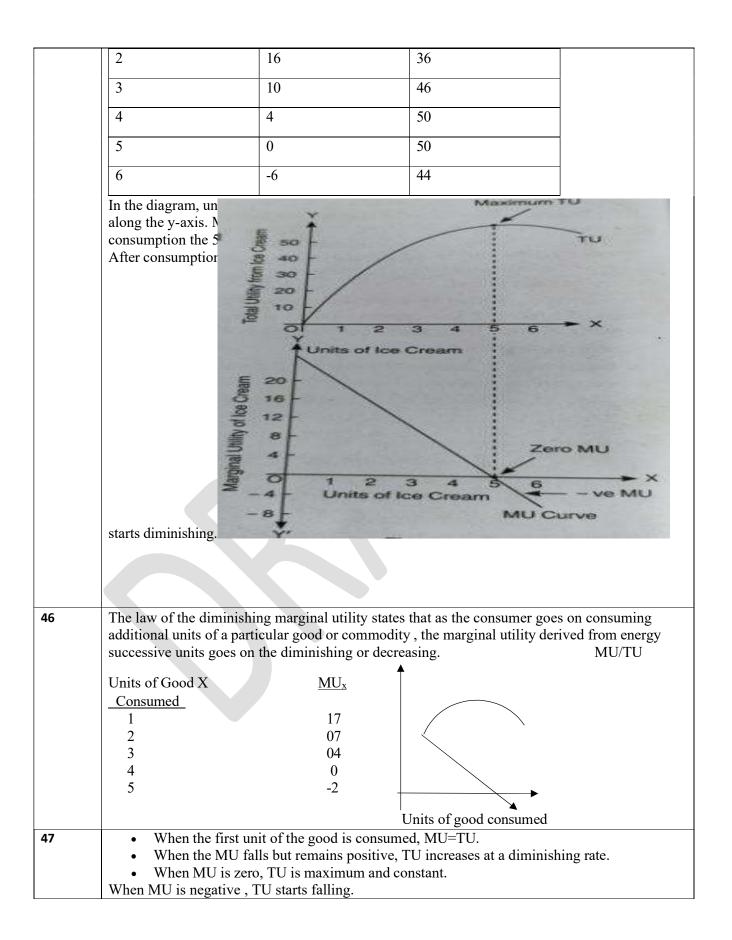
1	c) : When MU is zero, TU is maximum and constant.
2	b) : decrease.
3	c) : $M = PxQx + PyPy$
4	c) At one point, he will derive the same level of satisfaction and at another point different level of satisfaction.
5	b) Is a downward sloping curve and convex to the origin.
6	a) : $\frac{MU_x}{P_x} = \frac{MU_y}{P_y}$
7	d) Diminishing marginal rate of substitution
8	d) Change of taste, preference and choice of the consumer.
9	(a) : He will buy more of good X
10	(b): No, she is wrong
11	(a) – The price ratio.
12	(a)- M/PV.
13	(c) - A cardinal measure of utility.
14	(c) – Zero.
15	(a) - Is not spending all of his income.
16	(b) Both Assertion (A) and Reason (R) are true and Reason (R) is not the correct explanation of Assertion (A).
17	(b) cardinal utility approach
18	(d)



40	(1). Let the two quantities of goods be X and Y. We are given $Px = Rs 4$,
	(II) (D)- Total utility divided by the number of units $TU = MU1 + MU2 + MU3 + \dots + MUn = \Sigma MU.$
39	(I) (A) - Want satisfying power of a commodity
	(2, 1), (2, 2), (3, 0), (3, 1) and (4, 0). (0, 4), (1, 3), (2, 2), (3, 1) and (4, 0) cost exactly Rs 40. All the other bundles cost less than Rs 40.
38	Bundles available to consumer are: (0,0), (0,1), (0,2), (0,3), (0,4), (1,0), (1,1), (1,2), (1,3), (2,0),
	Utility is negative after point Q, total Utility decreases.
	figure of Question 1, then total Utility increases at a diminishing rate and when Marginal
	3. The given statement is refuted. When Marginal Utility is positive till point Q as shown in
	(becomes zero.
	diminishing. Total utility keeps on rising, but at a diminishing rate till marginal utility
	2. False: As we consume more units of a commodity, its marginal utility keeps on
	generate disutility.
	where the point of full satisfaction is reached. Consumption beyond this point will only
37	1. False: For free goods, a consumer will limit his consumption of a commodity to a point
36	The monotonicity of the preference states that between two bundles of the goods, the consumer will prefer that the bundle that has at least one unit more than the other good. Accordingly, between the two indifference curves, the higher indifference shows more units with more goods and not less of the other good. So the consumer prefers higher indifference curve to lower indifference curve.
26	$\frac{MU_x}{P_x} = \frac{MU_y}{P_y}$
	Hence he will more and more units ot. As he consumes more, his marginal utility will decrease. This process will continue till
	This implies that the consumer derives more satisfaction from the consumption of good-Y.
	$\frac{MU_x}{But at a particular point of time, MU_x=50, MU_y=48, P_x=Rs 5/- \& P_y=Rs 4/ So 50/5<48/4.$
35	To remain in equilibriumin case of several commodities, the condition to be fulfilled is
	This means the marginal utility derived from the commodity in terms of money is equal to its price.
	$\frac{MU_{x}}{P_{x}} = \frac{MU_{m}}{P_{x}}$
34	Given the income of the consumer and price of the good, the consumer decide to buy that quantity of the good where

	Py = Rs 5, Consumer's income (M) = Rs 20. Budget line equation is
	Px.X+Py.Y=M or = 4X+5Y=20.
	(2). If quantity consumed of good $Y = 0$, Budget equation becomes
	$\mathbf{P}\mathbf{x}.\mathbf{X} + 0 = \mathbf{M}$
	or
	4. $X = 20 = X = 20/4 = 5$ units.
	(3). If quantity consumed of good $X = 0$, Budget equation becomes,
	$0 + \mathbf{Py} \cdot \mathbf{Y} = \mathbf{M}$
	or
	5. $Y = 20 = Y = 20/5 = 4$ units.
	(4). Slope of budget line = $Px/Py = 4/5 = 0.8$
41	
41	Higher IC lying above and to the right of another IC represents a higher level of satisfaction.
	All combinations of goods X and Y lying on the higher indifference curve IC2 have more
	satisfaction than lower indifference curve IC1 as shown in figure given here.
42	
	In case of free chocolates, consumer will carry on the consumption till his total utility is
	maximum. It means, till the additional chocolates gives positive satisfaction, consumer will
	keep on having chocolates. Let us understand this with the help of the figure shown in
	Question 1. Consumer will stop the consumption at the point of satiety (Point 'Q'), i.e.,
	where marginal utility is equal to zero.
	P→ TU is Maximum
	To MRSS to grant Part
	all X and Y all X and Y are two you no
	$\rightarrow MU = 0$
	OI Q Units Consumed
	1. When MU decreases, TU increases at a diminishing rate. (As shown in figure till
	consumption level OQ). 2. When MU is zero, TU is constant and maximum at P.
	3. When MU is negative, TU starts diminishing.

43	 In case of Indifference Curve, each combination of two goods equal satisfaction. So, when a consumer increases the consumption of one good then consumption of other good must be decreased, so as to maintain same level of satisfaction. In the diagram, apples are measured along the x-asis and bananas on the y-axis. All points (P,Q,R,S and T) on the curve shows different combinations of apples and bananas. Now, when a consumer moves from combination P to Q, consumption of apples increases by 1 unit while that of bananas decreases by 5 units. 				
	Bananas (B)	Applies (A)	+ 38) (5A + 18) IC₁ → X		
44	According to the law of Equi-Marginal Utility, a consumer gets maximum satisfaction, wh ratio of MU of two commodities and their respective price are equal and MU falls as consumption increases. It means there are two necessary conditions to attain consumer's equilibrium in case of two commodities (i) The ratio of marginal utility to price is same in case of both the goods. As we know when a consumer in consumption of single commodity (say x) is a equilibrium When MUx / Px = MUm(1) Similarly, consumer consuming another commodity (say y) will be at equilibrie When MUy / Py = Mum(2) Equating (1) and (2) we get MUx/Px = MUy/Py = Mum As marginal Utility of money (MUm) is assumed to be constant, the above equilibrium condition can be related as :[MUx/Px = MUy/Py or MUx/MUy = Px/Py When Px = Py then the equilibrium condition can be related as MUx = MUy (ii) MU falls as consumption increases :- The second condition needed to attain consumer's equilibrium is that MU of a commodity must fall as more of it is consumed. If MU does not fall as consumption increases, the consumer will never reach the 			U falls as n consumer's goods. dity (say x) is at l be at equilibrium , the above MUx = MUy ded to attain more of it is nsumer will end up	
	equilibrium point. Finally, it can be concluded that a consumer in consumption of two commodities will be at equilibrium when he spends his limited income in such a way that the ratio of Marginal Utilities of the two commodities and their irrespective prices are equal and MU falls as consumption increases.				
45	Total Utility can be calculated as the sum of marginal utilities from all units, i.e. $TUn = MU1 + MU2 + MU3 + \dots MUn$ $TUn = \sum MU$ The concept of TU and MU can be better understood from the following schedule and diagramTable of TU and MU				
	Ice-Cream consumed	Marginal Utility (MU) 20	Total Utility (TU) 20		



48	An indifference curve slopes downward from left to the right because of the reason that if the consumer prefer to consume more and more units of one commodity, then he will sacrifice some units of the other commodity in order to remain indifferent among all possible combinations of two goods.		
49	$\frac{\text{Marshallian utility Analysis}}{1.\text{Utility cardinally measured}}$ 2. equilibrium is attained where MU derived from both the units gives same level of satisfaction 3. $\frac{\text{MU}_x}{P_x} = \frac{\text{MU}_y}{P_y}$		
	Hicksian indifference curve Analysis		
	Image: Intervence curve runnysis 1. Utility ordinally image: Intervence curve. 2. Slope of the price line = slope of indifference curve. 3. Tangency between IC and price line 3. Tangency between IC		
50	a. At this point the slope of the price line equals to the slope of indifference curve.b. The consumer derives maximum satisfaction.c. At any intersection point, the satisfaction level is less.		
51	As the consumes additional units of one commodity, he is ready to sacrifice lesser units of the other commodity. As the consumer buys additional units of one good, then the saturation level is achieved , hence he derives lesser and lesser satisfaction. So he is ready to lesser units of the other good, so diminishing the marginal rate of substitution is operated.		
52	As we know a consumer purchases a good up to the point where marginal utility of the		
	good becomes equal to the price of that good.		
	MU = Price		
	1. Figure B is derived from Figure A.		
	2. In figure A, initially, consumer equilibrium is attained at point E, where let MU (10) =		
	Price (10). Corresponding to point E, we derive point E1 in figure B.		

	 3. Due to fall in price (suppose from 10 to 8), MU > Price at the given quantity. So, we contain the price of the	
	say that benefit is greater than cost and the consumer increases the quantity till MU = Price condition is attained at F. Corresponding to point F, we derive the point F1; in figure B. So, by joining point E1 and F1 together, we derive the demand curve.	
53	1. As, we know quantity of one commodity increases, its marginal rate of substitution falls because of law of diminishing marginal utility. Marginal rate of substitution is a slope of Indifference curve and whenever slope [MRS] decreases it makes the curve convex to the point of origin.	

	2. In the above diagram, units of y are measured on vertical axis and units of x on hori			
	axis. When the consumer moves from combination A (1 x + 25 y) to B (2 x + 20 y), he acq			
	one additional unit of x and forgoes (sacrifice) 5 units of y, if he wants to get the same level			
	of satisfaction. The consumer has to reduce the consumption of y when he increases the consumption of x. The number of units of good y that the consumer is willing to sacrific for an additional unit of good x, so as to maintain the same level of satisfaction is technicall called the marginal rate of substitution of x for y and is denoted by MRSxy			
	3. So, the MRSxy when the consum	er move from combination A to B is 5 : 1, further as the		
	consumer move from combination l	B to C, he acquires one more units of x, but the consumer		
	forgoes a smaller number of y, i.e., I	forgoes a smaller number of y, i.e., MRSxy at this stage is 4 : 1. It may be observed now that		
	MRS diminishes as the consumer moves from combination A to B, B to C, C to D, and D to			
	E. The consumer forgoes less and less units of y as he acquires additional unit of x. The above points also justify the validity of negatively sloped indifference curve.			
54	No, I do not agree.			
	If a consumer is in equilibrium and price of one commodity changes then this disturbs the equilibrium. Let us understand this from the cases below:			
	Cardinal Approach	Ordinal approach		
	(Two Commodity Cases)			
	If Px falls MUx/Px > MUy/Py	If Px Falls MRSxy > Px/Py		
	MUx/rx > MUy/ry	NIKSXY = FX/FY		
	It implies that marginal utility of	It implies that a consumer is		
	money from commodity X is	willing to sacrifice more unit of		
	greater than Marginal utility of money from commodity Y	Y for additional X than what is required in the market		
	A rational consumer will	A rational consumer will		
	therefore, increase the	therefore, increase the		

	consumption of X and decrease the consumptionLaw of DMU operates.MUx falls and MUy rises till the	consumption of X and decrease the consumption Y. Law of DMU operates. MRSxy falls till the time,	
	time, MUx/Px = MUy/Py	MRSxy = Px/Py	
55	 Giffen Negative Leftward shift of the demand curve Shifts to the left 		
56	 Primary data Indirect oral investigation 1951 10 	 Indirect oral investigation 1951 	
57	 Secondary Data Schedule Semi- Government Publications Persons with disabilities and drinking water 		