

KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY DEEMED TO BE UNIVERSITY, BHUBANESWAR – 24 (Decld. U/S 3 of UGC Act, 1956) OFFICE OF THE CONTROLLER OF EXAMINATIONS

Sample Question Format

KIIT Deemed to be University Online Mid Semester Examination (Spring Semester-2021)

<u>Subject Name & Code:</u> Engineering Economics HS 2002 <u>Applicable to Courses:</u> Mech and ETC_ (concerned branches)

Full Marks=20 Time:1 Hour

SECTION-A (Answer All Questions. All questions carry 2 Marks) Time:20 Minutes

 $(5\times2=10 \text{ Marks})$

Questio	Question	<u>Question</u>	<u>CO</u>	<u>KEY</u>
<u>n No</u>	Type (7.50 (GATE))		<u>Mapping</u>	
0.31((MCQ/SAT)		G0.2	
Q.No:1(MCQ	Cross price elasticity between Reynolds pens and	CO2	A
<u>a)</u>		Cello pens would be		
		A. Positive		
		B. Negative		
		C. Zero		
	MCO	D.None of the above	G0.1	
	<u>MCQ</u>	Market studies indicate that price elasticity of	CO1	A
		demand for Air Conditioner for slum dwellers in		
		Mumbai market is -1.5. If there is a 7.5% increase		
		in the Air Conditioner price, this would result in		
		A. A decrease in demand by 11.25%		
		B. An increase in demand by 11.25%		
		C.A decrease in demand by 7.5%		
	7.500	D. A decrease in demand by 9%		
	MCQ	Last month your income was \$50000 and you	CO2	A
		bought 3 pairs of designer Jeans. This month your		
		income increased by 20% and you bought 5		
		designer Jeans for your brother. Keeping all other		
		factors constant which of the following statement is		
		correct regarding your income elasticity of demand		
		and designer Jeans?		
		A. Income elasticity of demand is +3.33 and		
		designer Jeans are normal goods.		
		B. Income elasticity of demand is 0.3 and designer		
		Jeans are normal goods.		
		C. Income elasticity of demand is -3.33 and		
		designer Jeans are inferior goods.		
	N/CO	D. None of the above		_
	<u>MCQ</u>	Consider the demand curve D=100-3P. If you	CO2	В
		calculate the price elasticity at P=5, it would be		
		A0.1764 and more elastic		
		B0.1764 and less elastic		
		C0.1674 and less elastic		
ON	MCO	D. None of the above	G04 1375	
Q.No:1(<u>MCQ</u>	When price is below equilibrium level, there will	CO1 AND	В

A. Surplus of commodity in the market. C. Shift in supply curve. D. Shift in demand curve MCO Ten rupees is the equilibrium price for good X. If government fixes price at Rs. 5, there is: A. Shortage B. Surplus C. Excess supply D. Loss MCO A decrease in demand causes the equilibrium price to: A. Rise B. Fall C. Remain constant D. Indeterminant D. Indeterminant D. Remain of the product B. By Supply of the product C. By both demand and supply D. By the government How does TR change with output when MR is negative? A. TR falls with the increase in output C. TR falls with the decrease in output C. TR falls with the decrease in output D. None of these. MCO Assume that when price is Rs. 20, the quantity demanded is 15 units and when price is Rs. 18, the quantity demanded is 16 units? A. Rs. 18 B. Rs. 16 C. Rs. 12 D. Rs. 28 MCO When increase in output from 15 units to 16 units? A. Rs. 18 B. Rs. 16 C. Rs. 12 D. Rs. 28 MCO When increase in the price of one good causes an increase in demand for the other, the goods are: (a) Substitutes (b) Complementary (c) inferior (d) Giffen MCO If the income and consumption of a good X is related positively then: A. X is a normal good. B. X is an inferior good. C. X is a Giffen good.	<u>b)</u>		be	CO 2	
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(a) Substitutes (b) Complementary (c) inferior (d) Giffen MCQ If the income and consumption of a good X is related positively then: A. X is a normal good. B. X is an inferior good. C. X is a Giffen good.			1		
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(c) inferior (d) Giffen MCQ If the income and consumption of a good X is CO 2 related positively then: A. X is a normal good. B. X is an inferior good. C. X is a Giffen good.					
(d) Giffen MCQ If the income and consumption of a good X is CO 2 related positively then: A. X is a normal good. B. X is an inferior good. C. X is a Giffen good.			The state of the s		
related positively then: A. X is a normal good. B. X is an inferior good. C. X is a Giffen good.					
related positively then: A. X is a normal good. B. X is an inferior good. C. X is a Giffen good.		MCC	TC 4	00.5	Α
A. X is a normal good. B. X is an inferior good. C. X is a Giffen good.		MCQ		CO 2	A
B. X is an inferior good. C. X is a Giffen good.			~		
C. X is a Giffen good.					
LL ANV OF The Shove					
D. They of the above			D. Any of the above		

Q.No:1(d)	MCQ MCQ	Law of demand refers to: [A] Need of the goods and services [B] Desire for a goods and services [C] Quantity of a goods and services demanded at a particular time at a particular price [D] Amount of goods and services demanded Which Of the following statement is true in case of	CO2,CO3	С
		demand theory: [A] It is relationship between Income and price of commodity [B] Assumes Income of customer should not change. [C] Assumes Price of the commodity should not change [D] It is relationship between Income and Quantity demanded	CO2,CO3	
	MCQ	When supply falls, the supply curve will [A] Moves Left [B] Moves Right [C] Moves up [D] Moves down	CO2,CO3	A
	MCQ	In case of normal supply curve we takein vertical axis and in horizontal axis. [A] Price of X , Quantity of Y [B] Price of X , Quantity of X [C] Income of Y , Quantity of Y [D] Price of Y, Quantity of X	CO2,CO3	В
Q.No:1(e)	MCQ	How much will be the mature value of Rs 15000 invested each year for 5 years at 8% rate of interest(nearest approximately)? A. 65000 B. 88000 C. 79000 D. 91000	CO4	В
	MCQ	How much should be charged each year at 7% rate of interest to recover a capital of Rs 2 lakhs invested now for 6 years(nearest approximately)? A. 41942 B.35430 C. 48080 D.39190	CO4	A
	MCQ	If Rs 7 lakhs has to be generated after 5 years at 6% rate of interest, how much should you deposit each year(nearest approximately)? A. 1,50,780 B.1,45,060 C. 1,24,177 D. 2,00,2200	CO4	С
	MCQ	If you are to receive Rs 1 lakh each year for 10 years in a scheme, what should be your maximum investment now at 6% per annum rate of interest(nearest approximately)? A. 812322	CO4	В

ĺ		B. 736313	
l		C. 791122	
l		D. 854344	

SECTION-B(Answer Any One Question. Each Question carries 10 Marks)

Time: 30 Minutes

(1×10=10 Marks)

Ouest ion No. Oues tion Bank					Quest	<u>ion</u>					CO Mappi ng
Quest ion No:2	Q = 1000-2 and Q=600+20I (i) Find the (ii) If the st GST, will the supply curv (b) Sudarsh 20 years in compounde	OP (Suequipply here re. an dan his dan f 10	upply) Ilibrium price a y equation is n be an increase eposited an equation according	and Quevised or decuivale bunt. Man m	nantity. I as Q= crease i nt amon Money nade an	400+20 n suppount of Swas gray withdr	0P bec ly? Ex: \$30000 rowing rawal o	ause of ibit this at the gat 7 of \$500	end o percer 00 fro	mposition of a the help of the f each year for at interest rate m this account	
					[5+5	5]					
Quest ion No:3	following to	able. ' and	In which case Marginal Rat	e can y e of su	you dra ıbstituti	w an II on X fo	ndifferor Y (N	ence cu MRS _{XY}	ırve. <i>A</i>	e given in the	
			Combinations	X	ndle 1 Y	Bun X	dle 2 Y	Bund	Y	-	
			A	4	3	1	20	1	6	-	
			В	4	4	2	15	2	6	- 	
			С	4	5	3	11	3	6		
			D	4	6	4	8	4	6		
	(b) Guru m	ade (E deposits in his	accou	7	5 e follo	6 wing p	5 attern a	6 and for] r the following	
	years.		<u>-</u>								'
	Year Deposit	0	1 2		3	4	5	6		7	
	Damaai4	30	30 30		30	30	30	30)	30	

his account at the end of 10 years.

Quest	A. What	does t	he 'La	aw of D	emand '	states'	?				CO4
ion								r goods	s and G	iffen goods. Explain	
No:4	your answer.										
	B. Given the following information about Income(X)per month and quantity demanded (Y), predict the Qd if the income is given as Rs. 50 thousand per month, using Least Square method of demand forecasting.										
	Month	1	2	3	4	5	6	7	8		
	Y(in units)	20	30	35	20	25	37	45	28		
	X(in thousa nd)	10	20	30	40	45	35	40	47		
Quest ion No:5	[A] Differentiate between normal goods, inferior goods and Giffens goods [5] [B] The price of chalk was 3 rupees a box, and I was using 10 boxes. But now the price has gone up to 3.75 a box, and I am now using 8 boxes. What is my elasticity of demand? Is my demand for chalk elastic or inelastic? What kind of good is the chalk?							CO4			
Quest ion No:6	solve the A and B Q = 3P,I	follov and C B's sup 0 . If	wing p three oply fo you w	oroblen suppli- unction vanted	n. ers sell b is Q = - to buy 8	pasebal 5 + 3P 5 cards	l cards and C s total,	A's su 's suppl	pply fu ly funct uch wo		CO:
	country	in a y alue of	ear w f indir	as 1100 ect tax	Ocrore.N is 200cr	et factorore and	or inco d subsi culate a	me fron dy prov	n abroa ided by	Pmp of a particular d was 100crore The Govt was 50 of Depreciation and	

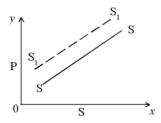
2. (a)
$$Q = 1000 - 20P (D)$$

$$Q = 600 + 20P(S)$$

(i)
$$1000 - 20P = 600 + 20P$$

$$40P = 400$$

(ii) Decrease in supply. Supply curve will shift to the left.



(b)
$$30000 \left\lceil \frac{(1.07)^{10} - 1}{.07} \right\rceil - 50000$$

= 364493.4388

$$\Rightarrow 364493(1.07)^{10} + 30000 \left[\frac{(1.07)^{10} - 1}{.07} \right]$$

=1131507.202

OR

30000
$$\left\lceil \frac{(1.07)^{20} - 1}{.07} \right\rceil - 50000 (1.07)^{10}$$

= 1131507.202

3. (a)

- IC can be drawn in case of bundle 2 because the MRS_{xy} in this case is decreasing
- Defining
 - Budget line

OR

- MRS_{xv}

(b)
$$30000 (1.04)^{10} + 30000 (1.04)^9 + 30000 (1.04)^8 + 30000 (1.04)^7 + 30000 (1.04)^6 + 30000 (1.04)^5 + 30000 (1.04)^4 + 30000 (1.04)^3 = 310942.5422$$

30000 (1.04)¹⁰ + 30000
$$\left\lceil \frac{(1.04)^7 - 1}{.04} \right\rceil \times \left[(1.04)^3 \right]$$

= 310942.5422

Q4.A. Students will define the Law of Demand. It still operates in case of Normal goods but breaks down in case of Giffen goods.

B.
$$a= 24.89 = 25 (approx.)$$
 slope=b=0.153

At X=Rs 50 thousand, Y = 25+7.65 = 32.65 units

Q5 (Answer):

A: Students will differentiate between the normal, inferior and giffen goods.

B: % Change in Quantity =
$$(8 - 10)/(10) = -0.20 = -20\%$$

% Change in Price =
$$(3.75 - 3.00)/(3.00) = 0.25 = 25\%$$

Elasticity = |(-20%)/(25%)| = |-0.8| = 0.8

Q6 i Ans: Students will explain the increase and decrease in supply with diagram (Shift in supply curve)

 \Rightarrow 4P-10 = 0 so **P= 2.5** (at which 'C' no longer sell any cards)

ii. Students will explain difference between NNPfc and NNPmp.

GDPmp = 1100, NFIA = 100, indirect tax = 200, subsidy = 50

National Income (NNPfc) = 850

NIT =Indirect Tax - subsidy = 150

GDPmp= NNPfc+NIT-NFIA+Depreciation

Depreciation = 200

 $\mathbf{GNPfc} = \mathbf{NNPfc} + \mathbf{Depreciation} = 850 + 200 = \mathbf{1050}$