Microeconomics Theory with Applications 8th Edition Eaton Test Bank

Name	<u> </u>			
MULTIPLE CHOICE. (Choose the one alternative that b	est completes the state	ement or answers the question	n.
A) utility fu	consumption bundles are: inctions. ce orderings.		y retail merchants. ns of goods and services.	1)
Answer: D Explanation:	A) B) C) D)			
good x and 9	rences are given by the utility fur units of good y. If he consumes or der to be as well off as before?			2)
A) 10	B) 27	C) 18	D) 30	
Answer: B Explanation:	A) B) C) D)			
use to explain A) Smokers B) Smokers C) Since sm	lead to lung cancer and prematur why people smoke? s exhibit irrational behaviour. s face tradeoffs. noking is addictive, smokers need s are not maximizers.		following would an economist	3)
Answer: B Explanation:	A) B) C) D)			
	following preference orderings vi are indifferent to Oranges, Bana			4)
B) Apples a Bananas	are preferred to Oranges, Orange	s are preferred to Bana	nas, Apples are preferred to	
C) Oranges to Orang	are indifferent to Bananas, Bana ges.	nas are indifferent to A	apples, Apples are indifferent	
D) Bananas Oranges	are preferred to Apples, Apples	are indifferent to Oran	ges, Bananas are preferred to	
Answer: A Explanation:	A) B) C)			

5) If an indifference curve is smooth and convex to the origin, then:			5)		
A) the two goods are said to be concave combinations of each other. B) there is a diminishing marginal rate of substitution.					
		oods are said to be convex combination	ons of each other.		
		erence curve is said to be normal.			
	Answer: B				
	Explanation:	A)			
		B)			
		C)			
		D)			
6)	Economists ass	sume that an individual's preference o	rderings include all of the following except:	6)	
٠,	A) transitivit	-	B) preference or indifference.	٠,	
	C) homogen	_	D) completeness.		
	Answer: C	,	, '		
	Explanation:	A)			
		B)			
		C)			
		D)			
7)		m willing to eat tater tots when french		7)	
	A) diminishiC) substituti	=	B) maximization.		
	•	on.	D) inconsistency.		
	Answer: C	2)			
	Explanation:	A)			
		B)			
		C) D)			
		<i>b</i>)			
8)	Employees der	nand more more for overtime work be	ecause:	8)	
	A) they are g	greedy.			
	B) longer ho	urs are tiresome.			
	_	nardworking ones self-select for extra			
	D) working	extra hours makes them less willing to	trade off leisure for income.		
	Answer: D				
	Explanation:	A)			
		B)			
		C)			
		D)			
٥١	If we consider:	the bundles $A = (5,30)$ and $B = (6,40)$, t	then	9)	
")		imer is indifferent between A and B.	men.	7)	
	B) A is prefe				
		point A is lower than the utility at point	nt B.		
	D) B is prefe		=-		
	Answer: D				
	Explanation:	A)			
	1 2	В)			
		Ć)			
		D)			

•	ollowing is consistent with the transitiv	,	10)
-	nd A>C then B>C.	B) If A <b a<c="" and="" c="" then="">A	
C) If A>B ar	nd A>C then B=C.	D) If A>B and A=C then B <c.< td=""><td></td></c.<>	
Answer: D			
Explanation:	A)		
·	B)		
	C)		
	D)		
11) A vegetarian's	indifferent curve in a space defined by	hamburgers on the horizontal axis and	11)
broccoli on the	e vertical axis:		
A) is concav	ve to the origin.	B) is horizontal.	
C) is vertica	il.	D) cannot be defined.	
Answer: B			
Explanation:	A)		
Explanation.	В)		
	C)		
	D)		
	5)		
12) Which of the fo	ollowing is not a reason that economist	s use the assumption that indifference curves	12)
are convex?	onowing is not a reason that economist	s ase the assumption that marrierence carves	
	attention to the relevant part of the cur	AV-	
B) It is meas	•	VC.	
C) It is med			
D) It is reason			
ŕ	Tidble.		
Answer: B	A)		
Explanation:	A)		
	B)		
	C)		
	D)		
10)		ef and all and a formation of an and a second substitute.	10)
		of good x and 4 units of good y. Tim's utility	13)
		and 1 unit of good y. We can conclude that:	
	fers their own bundle to the other's bun		
•	fers Tim's bundle to her own, but Tim p	reiers his own bundle to Jane's.	
	fers the other's bundle to their own.	of a large of a Hall That	
•	ers Jane's bundle to his own, but Jane p	refers her own bundle to TIM's.	
Answer: A			
Explanation:	A)		
	B)		
	C)		
	D)		
•	ollowing assumptions is not generally a	• •	14)
A) transitive	9	B) smooth	
C) convex		D) diminishing MRS	
Answer: A			
Explanation:	A)		
	B)		
	C)		
	D)		

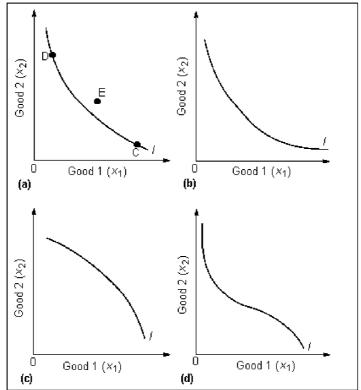
15) If the marginal A) smooth. C) downwar Answer: D Explanation:	A) B) C)	for example), then indiffere B) straight lines. D) kinked.	nce curves are not:	15)
fairly evenly a A) their tast	on a four-lane expressway during to mong the four lanes because: less and preferences differ. lend to be maximizers. A) B) C) D)	he rush hour tend to distrib B) the law of large num D) they choose lanes on	bers is operating.	16)
A) foregone B) employer C) labour ur	Is higher than regular pay because: Ileisure hours in addition to the oneses want to insure quality work after hions have the upper hand in the Calleisure hours in addition to the oneses. A) B) C) D)	hours. nadian economy.		17)
	ility function $U(x,y) = 2xy$. His indiff through the point where x is equal t B) 24. A) B) C) D)		gh the bundle (4,3) D) 10.	18)
stock market w A) immedia B) wonder v C) only follo D) only follo	when you get home today, there is a ladizard. He has the latest expert advictely phone your broker and follow have Joe didn't follow his own advice ow his advice if it details accurate passwhis advice if he has good informates whose stock he recommends you and the base of the base	te for you about purchasing his advice. Trather than sell the informa to st trends in stock prices. Tion about the future incom	stocks. You should:	19)

A) which are B) which cor C) which cor	nplies that consumption bundles: e nearer the origin are preferred. ntain more of all goods are preferred. ntain fewer of all goods are preferred. ntain more of one good and less of ano A) B)	ther are preferred.	20)
	C) D)		
A) (2,3) is pro	y function $U(x,y) = x^2 + y$, which of the eferred to (3,2) different to (1,3) A) B) C) D)	e following preference statements is true? B) (2,1) is indifferent to (1,4) D) (2,1) is preferred to (1,2)	21)
A) drivers arB) people talC) insurance	ty moves along as well as it does (i.e., for every second second to the every second s	unt. Ient.	22)
number associa A) bundle b B) bundle a C) bundle b	mber associated with consumption bu ited with bundle b, then: offers as much utility as two of bundle is preferred to bundle b. is twice as desirable as a. is preferred to bundle a. A) B) C) D)	ndle a is exactly the square root of the utility a.	23)

-	•	•	tion bundle a is exactly half the utility number	24)
A) bu B) bu C) bu	ed with bundle be ndle b is twice a ndle b is preferr ndle b offers as i ndle a is preferr	s desirable as a. ed to bundle a. much utility as two of l	bundle a.	
Answer	В			
Explana	tion: A) B) C) D)			
25) Indiffere	ence curves prov	ride a way to graphical	Ily represent:	25)
A) the	e income level of e relative price c	an individual.	B) an individual's preferences. D) the constraints faced by consumers.	, <u> </u>
Answer	В	_		
Explana	tion: A) B)			
	C)			
	D)			
A) mo B) mo C) les	ore expensive but ore preferred but s preferred bund	ndles.		26)
Answer				
Explana	tion: A) B) C) D)			
27) Conside	r the following p	preference statements:	(7, 9) is preferred to (5, 8); (18, 0) is preferred to (7, 9);	27)
	•	(6, 5). If the individual consumption bundles	I's preferences are consistent, then the preferences	
A) (7,	9), (5, 8), (18, 0), 3, 0), (7, 9), (5, 8),	(6, 5).	B) (18, 0), (5, 8), (7, 9), (6, 5). D) (5, 8), (6, 5), (18, 0), (7, 9).	
Answer Explana				

28) The rate at which a consumer is willing to exchange one good for another, and maintain a constant 28				
	ction is: inal rate of substitution. of marginal product.	B) the relative price ratio.D) the relative expenditure ratio.		
Answer: A Explanation:	A) B) C) D)			
29) Indifference cu A) downwa C) insatiable	rd sloping.	B) continuous. D) intersecting.	29)	
Answer: D Explanation:	A) B) C) D)			
30) Which of the form A) self inter C) perfect of Answer: A Explanation:		al assumption? B) common property D) resource endowment	30)	
31) Which of the form A) complete Answer: B Explanation:		or the existence of a utility function? ality C) continuity D) nonsat	31)	

Figure 2A



- 32) In Figure 2A (a):
 - A) c is preferred to d, d is preferred to e, e is preferred to c.
 - B) e is preferred to c, e is preferred to d, c is indifferent to d.
 - C) c is preferred to e, d is preferred to e, c is indifferent to d.
 - D) d is indifferent to c, d is indifferent to e, e is indifferent to c.

Answer: B

- Explanation: A)
 - B)

 - C)
 - D)
- 33) Tim consumes goods x and y. His utility function is given by U(x,y) = y(x+5). Which of the following is true?

32)

33)

- A) Tim prefers bundle (1,2) to bundle (2,1)
- C) Tim likes good y but hates good x.
- B) Tim likes good x but hates good y. D) Tim prefers bundle (7,3) to bundle (3,7).

- Answer: D
- **Explanation:** A)
 - B)
 - C)
 - D)

34) If an indifference curve has a kink, then:				34)			
B) the marg C) preference	inal rate of su ces are norma	is not convex to the ubstitution is a meanal. Justitution is undefire under undefire under u	ningless concep				
Answer: B Explanation:	A)			•			
	B) C) D)						
35) Utility function A) preference	_	o each individual.				35)	
B) service tr C) unique n	uck to each o umber to eac	sustomer request. The indifference curve The to each number					
Answer: C Explanation:	A)						
Ехріанаціон.	B) C)						
	D)						
36) Sheila has preferences represented by the utility function $U(x, y) = 8x + 4y$. She consumes 12 units of good x and 3 units of good y . If her consumption of good x is lowered to 10, how many units of y must she have in order to be exactly as well off as before?				36)			
must she have A) 10 units c C) 12 units c	of good y	e exactly as well off a	B) 5 un	its of good y nits of good y			
Answer: D Explanation:	A)						
	B) C) D)						
37) If Henry decid	•	his social life in orde	er to be more n	roductive at wo	urk an economist	37)	
would conside	r this:	This social life in orde			rk, an economist	37) .	
A) hedonistiC) one of life	c. e's many trac	de offs.	B) inev D) cont	itable. rary to maximiz	ing behaviour.		
Answer: C Explanation:	A)						
	B) C) D)						
38) If the indifferen	nce curves fo	r some individual ar	re vertical strai	ght lines, the uti	lity function is:	38)	
A) $U(x,y) = x$	x + 2y.	B) $U(x,y) = xy$.	C) $U(x, y)$	$y)=x^2+5.$	D) $U(x,y) = 2xy^2$	•	
Answer: C Explanation:	A)						
	B) C)						
	D)						

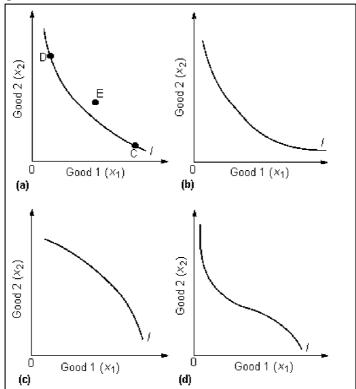
 39) If the utility number associated with consumption bundle a is exactly twice the utility number associated with bundle b, then: A) bundle a is preferred to bundle b. B) bundle b is preferred to bundle a. C) bundle a offers as much utility as two of bundle b. 	39)
D) bundle a is twice as desirable as b.	
Answer: A Explanation: A) B) C) D)	
 40) The value of a good is determined by: A) the amount of resources used to produce it. B) the maximum amount of goods in the market. C) the amount of time it takes to produce it. D) the maximum amount that one is willing to sacrifice to get it. 	40)
Answer: D Explanation: A) B) C) D)	
 41) Scarcity means that: A) our desire for a good exceeds the amount that is freely available. B) at the current market price there is a shortage of the good. C) we are unable to find a particular good in any of the stores we visit. D) a particular good is difficult to produce. 	41)
Answer: A Explanation: A) B) C) D)	
 42) If Jane's utility function is given by U = xy: A) Jane prefers bundle (1,3) to bundle (2,5). B) Jane is indifferent between bundle (2,2) and bundle (2,1). C) Jane prefers bundle (2,2) to bundle (3,3). D) Jane is indifferent between bundle (1,2) and bundle (2,1). 	42)
Answer: D Explanation: A) B) C) D)	

43) The utility fun	ction $U(x_1, x_2) = \min(x_1, x_2)$	$_{1}$, x_{2}) is an apt description of preferences v	vhen:	43)
A) <i>x</i> ₁ is mo	ney and x2 is cocaine.			
B) x ₁ is \$5 b	oills and x2 is \$5 bills.			
	oke and x2 is a Pepsi.			
	ft hand glove and x2 is	a right hand glove.		
Answer: D	2	3 - 3 - 3 - 3 - 3		
Explanation:	A)			
Explanation.	B)			
	C)			
	D)			
44) If <i>x</i> ₁ is good a	nd x_2 is bad, then indif	ference curves:		44)
-	ositive slope.	B) cannot be linear.		
· ·	egative slope.	D) are not smooth.		
Answer: A		·		
Explanation:	A)			
	B)			
	C)			
	D)			
45) When two god	ds are perfect substitut	cos thoy will havo:		45)
_	nce curves with a slope			43)
	nce curves that slope up			
	difference curves.	oval di		
•	nce curves that are kinl	ked.		
Answer: C				
Explanation:	A)			
•	В)			
	C)			
	D)			
46) For the utility	function: $U = x + y^2$, the	e MRS is given by: (calculus required)		46)
A) x/2.	B) 1/2y.	C) 1/2.	D) x/2y.	, <u> </u>
Answer: B	_		-	
Explanation:	A)			
'	В)			
	C)			
	D)			
47) The population	on accumption cave the	at given any two consumption bundles, if I	hundle 1 has more of	47)
·	does not contain less of	• •	Juliule i Has Hibre of	47)
•		ween bundle 1 and all other bundles.		
· ·	is never preferred to o			
	bundles are preferred t			
	is preferred to other bu			
Answer: D	•			
Explanation:	A)			
*	В)			
	C)			
	D)			

•	ess assumption implies that:			48)
B) the indiv	nce curves are convex. idual is indifferent between all bundles			
•	nce curves are smooth. points in the x - y space can be ranked.			
Answer: D	y space can be runked.			
Explanation:	A)			
	B) C)			
	D)			
	ifference curves imply that: s are perfect complements.			49)
B) the consu C) the consu	mer gets no utility from the Y axis goo mer gets no utility from the X axis goo			
Answer: C	s are perfect substitutes.			
Explanation:	A)			
-	B)			
	C) D)			
	·			
_	ction $U(x,y) = 2x + y$ is an apt description shoe and y is a right shoe.	n of the preferences when: B) x is nickels and y is qua		50)
	Is and y is dimes.	D) x is pizza and y is cola.	ii toi 3.	
Answer: C				
Explanation:	A) B)			
	C)			
	D)			
51) A representativ	ve indifference curve for some individu	al is $c = x_{1+}2x_{2}$, where c is	a number greater	51)
than or equal t A) x ₁ - x ₂	o zero. Which of the following is a utili B) <i>x</i> 1 <i>x</i> 2	~	al? D) 2 <i>x</i> 1 + <i>x</i> 2	
Answer: C				
Explanation:	A) B)			
	C)			
	D)			
52) An indifferenc	e curve represents:			52)
	te preference ordering.			
B) consump C) average p	tion bundles of equivalent value.			
D) complete				
Answer: B				
Explanation:	A) B)			
	C)			
	D)			

53) Mary's utility function is $U(x,y) = 4x^{1/2} + y$. She has 25 units of x and 12 units of y . If her consumption of x is reduced to 0, how many units of y would she need in order to be exactly as well off as before?					53)	
	112 units	10:	B) 32 units	C) 37 units	D) 48 units	
Ansv	wer: B anation:	A) B) C) D)	,		,	
	-		xpressed by the utility funent the same preferences?	oction $U(x_1, x_2) = x_1 + x_2$.	Which of the	54)
	·	$= (x_1 + x_2)^2$	one the same preferences.	B) $U(x_1, x_2) = In(x_1 + x_2)$) + 12	
•		$= x_1 + 4x_2$		D) $U(x_1, x_2) = 1000(x_1 +$		
Ans۱	wer: C anation:	A) B) C) D)			2/	
		•	imptions implies that bundles closer to the origin?	dles on indifference curve	s further from the	55)
•	non-satia		B) transitivity.	C) homogeneity	D) completeness.	
	wer: A anation:	A) B) C) D)				
56) Give	n the utilit	y function <i>U</i>	$(x_1, x_2) = x_1 + 2x_2$, the ma	rginal rate of substitution	(MRS) is:	56)
A) Ansv	equal to 1 wer: A anation:		B) undefined.	C) equal to 2.	D) zero.	
		D)				





- 57) In Figure 2A, which of the following curves represents a weakly convex indifference curve?
 - A) Figure 2A (a)
- B) Figure 2A (b)
- C) Figure 2A (c)
- D) Figure 2A (d)

Answer: B

Explanation: A)

- B)
- C)
- D)
- 58) If Al's indifference curves are downward sloping straight lines, then Al's marginal rate of substitution is:
- 58)

57)

- A) increasing.
- B) constant.
- C) zero.
- D) diminishing.

Answer: B

Explanation: A)

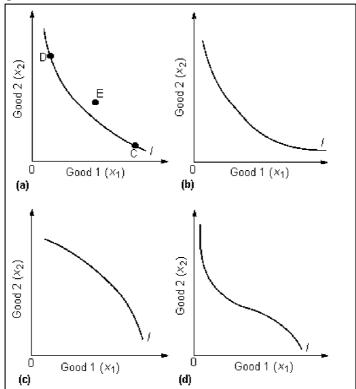
- B)
- C)
- D)

59) If an individual turns down more spinach at dinner, this individual: A) is violating the principle of diminishing marginal rate of substitution.					59)
B) is not maximizing.C) is not violating any postulates and could still be maximizing.D) is violating the principle of substitution.					
Answer: C Explanation:	A) B) C) D)				
A) smooth a		n left shoes and rightraight lines.	t shoes are: B) upward sloping. D) L-shaped.		60)
Answer: D Explanation:	A) B) C) D)				
	oresent Tim's min[<i>x,y</i>]	(x) but is allergic to utility function for o	tea (y). Which of the following coffee and tea? B) $U(x,y) = x + y$ D) $U(x,y) = x/y$	g utility functions	61)
62) If people regar I) are: A) kinked.	d pollution a	s a bad thing, then t	heir indifference curves for po	ollution and income (P,	62)
C) undefine Answer: B Explanation:	A) B) C) D)		D) convex.		
replies "I don't	know". This	is a violation of whi		·	63)
A) Non-sati	iation	B) Consistency.	C) Completeness	D) Transitivity	
Answer: C Explanation:	A) B) C) D)				

3 3 1 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3					64)	
the same prefe A) x1x2 + 1		ing: B) (x ₁ x ₂) ² .	C) x ₁ + x ₂ .	D) x ₁ x ₂ - 1000.		
Answer: C Explanation:	A) B) C) D)					
	y function is			erves have many kinks. ate of substitution is 1/5.	65)	
A) the incre B) the inter C) the decre	 66) The increase in the size of shopping carts for the past three decades is due to: A) the increase in the income per capita over time. B) the intention of store owners to sell more. C) the decrease in the cost of producing the carts. D) the increase in the opportunity cost of time. 					
Answer: D Explanation:	A) B) C) D)					
67) The nonsatiation assumption implies that:A) indifference curves do not cross.C) indifference curves have a positive slope.				B) indifference curves have a negative slope.D) indifference curves are continuous.		
Answer: B Explanation:	A) B) C) D)					
	ity function	$U(x_1,x_2) = \min(x_1,$	x_2), the marginal rate of sub	ostitution when x ₁ equals	68)	
x2 is: A) undefine Answer: A Explanation:	ed. A)	B) zero.	C) infinite.	D) one.		
F	B) C) D)					

 69) Which of the following statements about indifference curve analysis is false? A) Indifference curve analysis is identical to the n-good problem. B) Indifference curve analysis is a special case of the n-good problem. C) Indifference curve analysis simplifies the n-good problem for detailed study. D) Indifference curve analysis relies on the same assumptions as the n-good problem. 				
Answer: A Explanation:	A) B) C) D)			
70) Cheryl is alwa	ys willing to trade 3 cheeseburge	ers for a bucket of shrimp. Her indifference curves	70)	
	n to the origin d	B) straight linesD) bowed out from the origin		
Answer: B Explanation:	A) B) C) D)			
rank any set o A) complete	following are necessary assumpti f consumption bundles? eness and non-satiation eness and universality	ons to guarantee that an individual can consistently B) transitivity and non satiation D) transitivity and completeness	71)	
Answer: D Explanation:	A) B) C) D)			

Figure 2A



- 72) In Figure 2A, the utility function for some individual is $U(x_1,x_2)=x_1x_2$. An indifference curve for this individual is depicted in:
- 72)

73) ____

- A) Figure 2A (a).
- B) Figure 2A (b).
- C) Figure 2A (c).
- D) Figure 2A (d).

Answer: A

Explanation: A)

- B)
- C)
- D)
- 73) Which of the following is a scarce commodity?
 - A) fresh air
 - C) air

Answer: A

Explanation: A)

- B)
- C)
- D)

- B) stock market advice
- D) pollution

 74) A consumer's set of indifference curves provides: A) a relative ranking of bundles that provide more of all goods. B) a mechanism to determine market equilibria. C) a complete ranking of all possible consumption bundles. D) a ranking of a set of bundles on an indifference curve. 					74)	
Answer: C Explanation:	A) B) C) D)	andies on an manie	rende dan ve.			
•	ference curve	implies that: es are smooth. es never cross.	B) the indifference of D) the indifference of	curves are continuous. curves are convex.	75)	
76) Given the utili x2 is: A) undefine	ty function l	<i>J(x₁,x₂) = min(x₁,x₂)</i> B) one.	e), the marginal rate of subst C) zero.	titution when x1 exceeds D) infinite.	76)	
Answer: C Explanation:	A) B) C) D)					
77) Which of the f A) transitiv Answer: A Explanation:		equired for the exist B) relativity	ence of a utility function? C) universality	D) satiation	77)	
	•	neasure preferences.	B) indifference curv		78)	

•	nce curve is convex, the marginal rate of substitution is not:	79)
A) the rate aB) constant.	it which an individual is willing to trade goods.	
C) a function	n.	
D) minus or	ne times the slope of an indifference curve.	
Answer: B		
Explanation:	A) B)	
	C)	
	D)	
80) The nonsatiation	on assumption:	80)
	that individuals always maximize.	
	al way of saying that more is always better.	
	hat indifference curves have a positive slope.	
Answer: B	founded empirical truth.	
Explanation:	A)	
·	B)	
	C)	
	D)	
	out consumption over time:	81)
	hey become wiser as they age.	
	older people require less consumption. utility of consumption increases with age.	
	neir level of utility.	
Answer: D		
Explanation:	A)	
	B) C)	
	D)	
–		
	has 100 units of x_1 and 50 units of x_2 , and Jan has 50 units of x_1 and 100 units of x_2 .	82)
•	nal rate of substitution is 10, and Jan's is 1: mproving trades involve Jan giving up x_2 for x_1 .	
	mproving trades involve Tom giving up x ₁ for x ₂ .	
C) Pareto-ir	mproving trades between Jan and Tom do not exist.	
D) Pareto-ir	mproving trades exist but cannot be assessed given the above information.	
Answer: B	A)	
Explanation:	A) B)	
	C)	
	D)	

83) One of the fact	fors influencing the increase in the size of shopping carts for the past three decades is:	83)
A) the incre	ase in the cost of produce storage at home.	
B) the avera	nge weight of Canadians increase by 15%.	
C) the conti	nued entrance of women into the workforce.	
D) the fact t	hat people eat out less.	
· ·	nat poopto out out toos.	
Answer: C		
Explanation:	A)	
	B)	
	C)	
	D)	
84) The slope of ar	n indifference curve reflects:	84)
· ·	ne of a consumer.	· —
,	ve value that a consumer places on one commodity compared to another.	
	ve price of two commodities.	
	y number associated to the utility function.	
Answer: B		
Explanation:	A)	
	B)	
	C)	
	D)	
	-,	
85) Utility number	rs provide:	85)
	information to society.	
	lifferences between consumption bundles.	
	ye information to society.	
D) positive	information to individuals.	
Answer: D		
Explanation:	A)	
	B)	
	C)	
	D)	
	D)	
04) The basis reserv	on there are so many everylant substitutes for water in almost all Canadian sities is	04)
	on there are so many excellent substitutes for water in almost all Canadian cities is	86)
that:		
· ·	and for water is inelastic.	
	ly of water is limited.	
C) there are	so many alternative drinks readily available in the marketplace.	
D) water is:	so inexpensive that people use it for many different purposes.	
Answer: D		
Explanation:	A)	
Explanation.	B)	
	C)	
	D)	

•	consider the choice between an economic bad, air pollution, and a measure of expenditure on al				
other goods, income. The MRS of the indiffer A) is zero. C) is negative.			erence curves in this space: B) is positive. D) is not defined properly.		
Answer: B Explanation:	A) B) C) D)				
88) Given the follo	_	ty function, $U(x_1,x_2) = x_1$	$x_1 + x_2$, which of the following	owing preference	88)
A) (1, 9) is p C) (100, 0) i Answer: B	oreferred to		B) (1, 4) is indiffer D) (4, 4) is indiffer		
Explanation:	A) B) C) D)				
89) Along a stand	ard, down	ward sloping, convex in	difference curve the mar	ginal rate of substitution	89)
A) constant Answer: B Explanation:	A) B) C) D)	B) decreasing.	C) positive.	D) increasing.	
preference sta A) D is pref B) A is pref C) D is pref	tements vi erred to C erred to B, erred to B,	olates the transitivity as: , C is preferred to B, B is B is preferred to C, C is	A, B, C, and D. Which o sumption? preferred to A, C is prefe preferred to D, A is prefered to B, B is prefered	erred to A. erred to C.	90)
Explanation:	A) B) C) D)				

(91) Sharon's utility function can be expressed as $U(x_1, x_2) = 7x_1^{0.25}x_2^{0.75}$. How much good 2	91)
	is she willing to give up to get one unit of good 1 if she currently has 10 units of good 1 and 30 units of good 2?	
	Answer: Sharon's MU of good 1 is $(7/4)x_1^{-0.25}x_2^{0.75}$ and her MU of good 2 is $(21/4)x_1^{0.25}x_2^{075}$.	
	Thus, her MRS is $1/3(x_2/x_1)$. At her current level, she is willing to give up 1 unit of	
	x_2 to get 1 unit of x_1 . Explanation:	
Ç	92) When asked if he wants another beer, Kevin says "no thanks". Is this a violation of the non-satiation assumption?	92)
	Answer: No, it is possible for an individual to reach a satiation point with a particular good, when the marginal utility reaches zero. However, most economists assume that consumers are never satiated across <u>all</u> goods. Explanation:	
(93) Is the indifference curve between ice cream and garbage positively sloped?	93)
	Answer: Yes, because garbage is an "economic bad". Explanation:	
(94) Compute the MRS for the indifference curve $x_1 + x_2 = c$. Is it diminishing?	94)
	Answer: The MRS is equal to 1. For this utility function the MRS is constant. Explanation:	
Ç	95) Explain the difference between ordinal and cardinal utility.	95)
	Answer: The theory of utility used by economists is an ordinal one, i.e. it reveals only the relative order of consumer bundles. It does not say anything about the distance between bundles in terms of desirability. Explanation:	
		2.0
(96) Is an indifference curve defined as a set of bundles that a consumer with a given income can afford, and among which he or she is indifferent?	96)
	Answer: No. The definition of an indifference curve has nothing to do with affordability. Explanation:	
Ç	97) The nonsatiation assumption implies that more is preferred to less. Can two bundles that contain different amounts of good 1 but the same amount of good 2 be on the same indifference curve?	97)
	Answer: No, except when the two goods are perfect complements. Explanation:	
Ç	98) Does a diminishing marginal rate of substitution imply that an individual requires increasing amounts of one good as he gives up more and more of the other good to remain at the same utility level?	98)
	Answer: Yes. This is the definition of diminishing MRS. Explanation:	

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

- 99) Consider the following utility functions:
 - i) $U(x, y) = xy^{1/2}$
 - ii) U(x, y) = 10xy
 - iii) U(x, y) = 3x + 4y
 - iv) $U(x, y) = 2x + \ln(y)$
 - v) $U(x, y) = x^3$
 - a) Construct an indifference curve for each of these functions.
 - b) Calculate the MRS for each of these functions. (Calculus required)

Answer: a) i), ii) and iv) indifference curve are smooth and convex; iii) indifference curve is a downwards sloping straight line; v) indifference curve is a vertical straight line.

- b) i) MRS = 3y/x; ii) MRS = y/x; iii) MRS = 3/4; iv) MRS = 2y; v) MRS = infinity.
- 100) Consider the following list of statements. Each statement in the list means the same thing as one of the other statements. Identify the pairs of statements which are equivalent:
 - a) consumers always prefer to have more of a good;
 - b) consumers' preferences are complete;
 - c) consumers' preferences are transitive;
 - d) every market basket has an indifference curve associated with it;
 - e) indifference curves are bowed in to the origin;
 - f) indifference curves are downward sloping;
 - g) indifference curves do not cross;
 - h) a diminishing MRS is a characteristic of consumer preferences.

Answer: e) and h), c) and g), b) and d), a) and f).

101) Define the Panglossian dilemma and illustrate it with an example.

Answer: If the economic agents within a model have maximized, it must be that all possible gains from trade and production have been taken advantage of. This, in turn, means that the economic model in question cannot possibly offer the economist an insight into how to improve the world with policy prescription. This is the Panglossian dilemma, named after a character in Voltaire's classic work Candide. The upshot of this is that, even if an economist can imagine a better world than the one we live in, his or her model already implied that efficiency has been attained. The world is efficient and "we cannot learn to build a better mousetrap."

102) Consider the following utility function:

$$U(x, y) = 2x + 3y$$

- a) Draw the indifference curve associated with utility numbers 12 and 24.
- b) How does MRS change as we move from one indifference curve to another along the horizontal line y = 2? What about when y = 3?

Answer: a) Indifference curves are downward sloping straight lines. When U = 12, the indifference curve crosses the horizontal line at x = 6 and the vertical line at y = 4. When U = 24, the indifference curve crosses the horizontal line at x = 12 and the vertical line at y = 4..

b) The MRs is constant at every point on the indifference curve and it is equal to 3/2. Therefore, there is no change in MRS as we move from one point to another along an indifference curve or when we move from one indifference curve to another. In this case, *x* and *y* are perfect substitutes.

- 103) Jane's utility function is given by: $U(x, y) = xy^2$.
 - i) Is Jane indifferent between bundles (2,1) and (1,2)?
 - ii) Suppose Jane consumes 3 units of x and 2 units of y. If Jane increases her consumption of x by 1 unit but decreases her consumption of y by 1 unit, will she move to a lower indifference curve?
 - iii) Calculate the MRS when x = 3 and y = 2. (Calculus required)

Answer: i) No, Jane prefers (1,2) to (2,1).

- ii) Yes, her utility decreases from U = 12 to U = 4 and therefore she moves to a lower indifference curve.
- iii) When x = 3 and y = 2, MRS = 1/3.
- 104) Consider the following utility function: $U(x,y) = 2y + x^{1/3}$
 - a) What is the shape of an indifference curve (e.g., smooth, kinked, straight line)? Is the MRS diminishing?
 - b) How does the MRS change as you move from the indifference curve associated with the utility number 8 to the indifference curve associated with the utility number 27 when x = 2? What about when x = 3? (Calculus required)

Answer: a) The indifference curves are downward sloping, smooth and bowed in to the origin. They intersect both the horizontal and vertical axes. The MRS is diminishing.

b) MRS = $(1/6)x^{-2/3}$ doesn't change as you move along a vertical line because does not depend on y.

Answer Key Testname: C2

- 1) D
- 2) B
- 3) B
- 4) A

- 5) B 6) C 7) C
- 8) D
- 9) D
- 10) D
- 11) B
- 12) B
- 13) A
- 14) A
- 15) D
- 16) C
- 17) D
- 18) C
- 19) B
- 20) B
- 21) B 22) A
- 23) D
- 24) B
- 25) B
- 26) B
- 27) C
- 28) A
- 29) D
- 30) A
- 31) B
- 32) B
- 33) D
- 34) B
- 35) C
- 36) D
- 37) C
- 38) C 39) A
- 40) D
- 41) A
- 42) D
- 43) D
- 44) A 45) C
- 46) B
- 47) D
- 48) D
- 49) C
- 50) C

Answer Key Testname: C2

> 51) C 52) B 53) B 54) C 55) A 56) A 57) B 58) B 59) C 60) D 61) D 62) B 63) C 64) C 65) D 66) D 67) B 68) A 69) A 70) B 71) D 72) A 73) A 74) C 75) B 76) C 77) A 78) C 79) B 80) B 81) D 82) B 83) C 84) B 85) D 86) D

87) B 88) B 89) B 90) C

91) Sharon's MU of good 1 is $(7/4)x_1^{-0.25}x_2^{0.75}$ and her MU of good 2 is $(21/4)x_1^{0.25}x_2^{-0.075}$. Thus, her MRS is $1/3(x_2/x_1)$. At her current level, she is willing to give up 1 unit of x_2 to get 1 unit of x_1 .

- 92) No, it is possible for an individual to reach a satiation point with a particular good, when the marginal utility reaches zero. However, most economists assume that consumers are never satiated across <u>all</u> goods.
- 93) Yes, because garbage is an "economic bad".
- 94) The MRS is equal to 1. For this utility function the MRS is constant.
- 95) The theory of utility used by economists is an ordinal one, i.e. it reveals only the relative order of consumer bundles. It does not say anything about the distance between bundles in terms of desirability.
- 96) No. The definition of an indifference curve has nothing to do with affordability.

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Answer Key Testname: C2

- 97) No, except when the two goods are perfect complements.
- 98) Yes. This is the definition of diminishing MRS.
- 99) a) i), ii) and iv) indifference curve are smooth and convex; iii) indifference curve is a downwards sloping straight line; v) indifference curve is a vertical straight line.
 - b) i) MRS = 3y/x; ii) MRS = y/x; iii) MRS = 3/4; iv) MRS = 2y; v) MRS = infinity.
- 100) e) and h), c) and g), b) and d), a) and f).
- 101) If the economic agents within a model have maximized, it must be that all possible gains from trade and production have been taken advantage of. This, in turn, means that the economic model in question cannot possibly offer the economist an insight into how to improve the world with policy prescription. This is the Panglossian dilemma, named after a character in Voltaire's classic work Candide. The upshot of this is that, even if an economist can imagine a better world than the one we live in, his or her model already implied that efficiency has been attained. The world is efficient and "we cannot learn to build a better mousetrap."
- 102) a) Indifference curves are downward sloping straight lines. When U = 12, the indifference curve crosses the horizontal line at x = 6 and the vertical line at y = 4. When U = 24, the indifference curve crosses the horizontal line at x = 12 and the vertical line at y = 4..
 - b) The MRs is constant at every point on the indifference curve and it is equal to 3/2. Therefore, there is no change in MRS as we move from one point to another along an indifference curve or when we move from one indifference curve to another. In this case, x and y are perfect substitutes.
- 103) i) No, Jane prefers (1,2) to (2,1).
 - ii) Yes, her utility decreases from U = 12 to U = 4 and therefore she moves to a lower indifference curve.
 - iii) When x = 3 and y = 2, MRS = 1/3.
- 104) a) The indifference curves are downward sloping, smooth and bowed in to the origin. They intersect both the horizontal and vertical axes. The MRS is diminishing.
 - b) MRS = $(1/6)x^{-2/3}$ doesn't change as you move along a vertical line because does not depend on y.