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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Energy Resources, Economics and Environment (course)



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Course outline

About NPTEL ()

How does an NPTEL online course work? ()

Week 1 -Introduction ()

Week 2 -Energy and quality of life,

Week 6: Assignment 6

The due date for submitting this assignment has passed.

Due on 2025-03-05, 23:59 IST.

Assignment submitted on 2025-03-04, 14:53 IST

1)	Which is not a property of preferences?	

- Completeness, Non Satiation
- Monotonicity
- Transitivity
- Additivity

Yes, the answer is correct.

Score: 1

Accepted Answers:

Additivity

2) Which of the following options is/are true for the indifference curve?

1 point

1 point

- The indifference curve represents a locus of varying utility for similar goods/services
- Indifference curves can never intersect but can be parallel
- Indifference curves can be upward sloping
- In some cases, the indifference curve is a thick curve

Yes, the answer is correct.

Country energy balance ()

Week 3 -Energy Economics ()

Week 4 -Energy Resources ()

Week 5 - Non-Renewable Resource Economics ()

Week 6 -Preferences, Utility and Social choices ()

- Lecture 10:
 Preferences
 and Utility
 (unit?
 unit=69&lesson
 =70)
- Lecture 11A:
 Utility and
 Social Choice Part 1 (unit?
 unit=69&lesson
 =71)
- Lecture 11B:
 Utility and
 Social Choice Part 2 (unit?
 unit=69&lesson
 =72)
- Lecture 11C:
 Utility and
 Social Choice Part 3 (unit?
 unit=69&lesson
 =73)
- Lecture 11D: Utility and

Score: 1

Accepted Answers:

Indifference curves can never intersect but can be parallel

3) Which of the following is true?

pg4 here

1 point

- According to biocentrism, all non-humans have only instrumental value.
- According to biocentrism, all humans have only instrumental value.
- According to anthropocentrism, all non-humans have only instrumental value.
- According to biocentrism, only humans have intrinsic value.

Yes, the answer is correct.

Score: 1

Accepted Answers:

According to anthropocentrism, all non-humans have only instrumental value.

4) Which of the following are properties of the utility function?

1 point

- Independence
- Transitivity
- Increasing Function Ordinal not Cardinal

Completedness

- Continuity
- All the above properties

Yes, the answer is correct.

Score: 1

Accepted Answers:

All the above properties

5) Consider a utility function: $U(x_1, x_2) = x_1^2 + 4x_1 x_2 + 2x_2^2$ What is marginal rate of substitution at point P (3, 2), if point P lies on U (x_1, x_2)? Round-off your answers to 2 decimal places.

0.7

Yes, the answer is correct.

Score: 1

Accepted Answers:

(Type: Range) 0.69,0.71

1 point

6) Supply curve for a commodity in the market is given as P = 50 + 0.3Q and demand curves is given as P = 110 - 0.3Q, where P is price of commodity and Q is quantity of commodity. Find the quantity at market equilibrium point.

100

Yes, the answer is correct.

Score: 1

Accepted Answers:

(Type: Numeric) 100

1 point

Social Choice -
Part 4 (unit?
unit=69&lesson
=74)

- Lecture 12: RevisionPaper-1 (Part1) (unit?unit=69&lesson=75)
- Additional Learnings (unit? unit=69&lesson =76)
- Weekly Feedback (unit? unit=69&lesson =78)
- Quiz: Week 6 : Assignment 6 (assessment? name=211)

Week 7 -Public and private goods, Externalities ()

Week 8 -Energy and Financing ()

Week 9 -Input-Output Analysis ()

Text Transcripts ()

Books ()

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values of consumer's surplus and producer's sur	same as in above question 6. What are the rplus respectively.	ιρο
1500 units, 1500 units		
1550 units, 1600 units		
2000 units, 1800 units		
1900 units, 1750 units		
Yes, the answer is correct. Score: 1		
Accepted Answers: 1500 units, 1500 units		
8) What will be the value of total surplus for q	uestion no. 7?	1 pc
3000 units		
3150 units		
○ 3800 units		
3650 units		
Yes, the answer is correct. Score: 1		
Accepted Answers: 3000 units		
9) Which of the following violate/violates the a	assumptions of the two theorems of Welfare	1 pc
	assumptions of the two theorems of Welfare Complete Property Rights	1 pc
Economics?		1 pc
Economics? Legally enforceable property rights	Complete Property Rights	1 pc
Economics? Legally enforceable property rights Atomistic participants	Complete Property Rights No Transaction Cost	1 pc
Legally enforceable property rights Atomistic participants Complete Information	Complete Property Rights No Transaction Cost	1 pc
Legally enforceable property rights Atomistic participants Complete Information Positive transaction costs Yes, the answer is correct.	Complete Property Rights No Transaction Cost	1 pc
Legally enforceable property rights Atomistic participants Complete Information Positive transaction costs Yes, the answer is correct. Score: 1 Accepted Answers:	Complete Property Rights No Transaction Cost Are the Rules	
Legally enforceable property rights Atomistic participants Complete Information Positive transaction costs Yes, the answer is correct. Score: 1 Accepted Answers: Positive transaction costs 10) Which of the following principles or axioms Theorem?	Complete Property Rights No Transaction Cost Are the Rules	y 1 po

Unanimity

Accepted Answers: Non-satiation

Score: 1

Yes, the answer is correct.

Anthropocentrism prioritizes human needs, often leading to resource exploitation and economic growth at nature's expense. Environmental protection is justified based on human benefits.

Biocentrism values all life forms equally, advocating for sustainable energy, eco-friendly economies, and conservation for nature's intrinsic worth.

The balance between both is crucial for sustainable development.