

Unit 4 - Week 2 - Energy and quality of life, Country energy balance

Course outline

How does an NPTEL online course work?

Practice Assignment

Week 1 - Introduction

Week 2 - Energy and quality of life, Country energy balance

- Lecture 3A: Energy and Quality of Life
- Lecture 3B: Energy Inequality
- Lecture 3C: Energy Security
- Lecture 4A: Introduction to Country Energy Balance assignment
- Lecture 4B: Energy balance of Japan
- Lecture 4C: Energy balance of Australia
- Lecture 4D: Energy balance of Mexico
- Additional Learning and Activity

Quiz : Assignment 2

- Assignment 2 Solutions
- Download Videos
- Weekly Feedback

Week 3 - Energy Economics

Week 4 - Energy Resources

Week 5 - Non-Renewable Resource Economics

Week 6 - Preferences, Utility and Social choices

Week 7 - Public and private goods, Externalities

Week 8 - Energy and Financing

Week 9 - Input-Output Analysis

Week 10 - Primary Energy Analysis, Net Energy Analysis

Week 11 - Net Energy Analysis (Continued), Energy Policy

Week 12 - Energy policy (continued), Future Energy Systems

Text Transcripts

Assignment 2

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2020-02-12, 23:59 IST.

1) Which among the following is not a quality of life index?

1 point

- GDP per capita
- Happy Planet Index
- Human Development Index
- Popsicle Index

No, the answer is incorrect. Score: 0

Accepted Answers: GDP per capita

2) Which among the following combine to form Human Development Index? (Select all correct options)

1 point

- Education index
- Happiness index
- Health index
- Income index

No, the answer is incorrect. Score: 0

Accepted Answers: Education index, Health index, Income index

3) Calculate the health index of Country X given the following:

	Life Expectancy at birth	Mean years of schooling	Expected years of schooling	GDP/capita in PPP
Min	20 years	0 years	0 years	\$ 100
Max	85 years	13 years	18 years	\$ 40000
Country X	75 years	9 years	13 years	\$ 15000

Hint

No, the answer is incorrect. Score: 0

Accepted Answers: (Type: Range) 0.830,0.860

4) What would be the expression for the Lorenz curve if there was absolute equality?

1 point

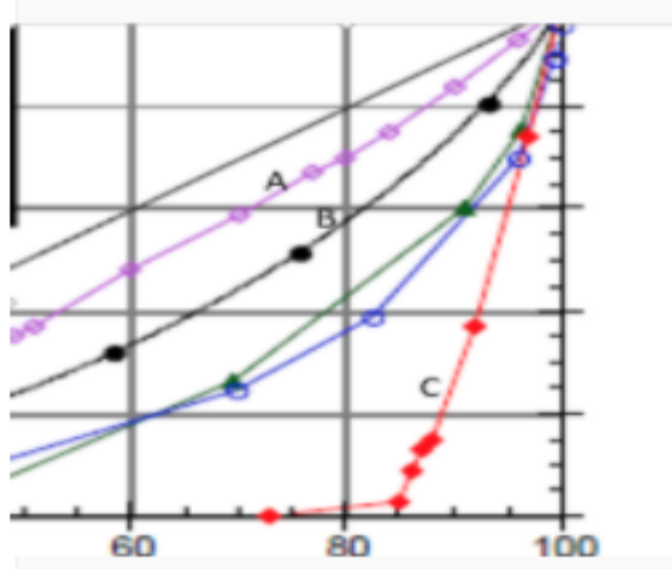
- $L(x) = 1$
- $L(x) = 0$ for $0 \leq x < 1, L(1) = 1$
- $L(x) = x$
- None of the Above

No, the answer is incorrect. Score: 0

Accepted Answers: $L(x) = x$

5) The Lorenz curve for countries A (pink), B (blue) and C (red) is given in the following figure. Arrange in order of increasing equality

1 point



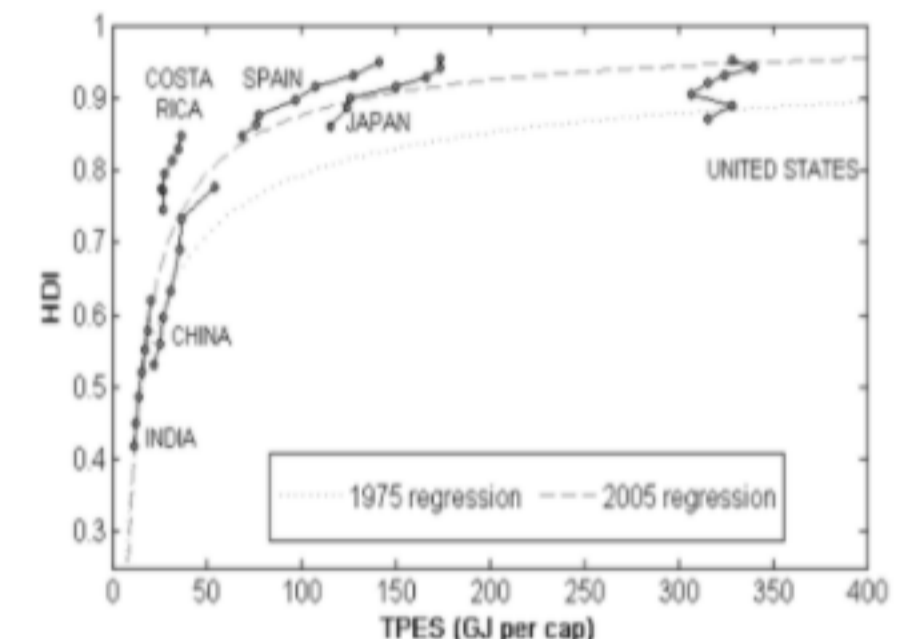
- $A < B < C$
- $C < A < B$
- $C < B < A$
- None of the above

No, the answer is incorrect. Score: 0

Accepted Answers: $C < B < A$

6) Which of the following statements is true with respect to the following figure ?

1 point



- The primary energy use and HDI are directly related in the initial years of a country's development
- Beyond a certain level of development, further use of energy does not make much difference in the development index
- US and Japan have similar levels of development with Japan using much less energy than the US
- All of the above

No, the answer is incorrect. Score: 0

Accepted Answers: All of the above

7) Increasing demand of oil imports is a risk to the energy security of India (true or false ?)

1 point

- True
- False

No, the answer is incorrect. Score: 0

Accepted Answers: True

8) Diversification of energy supply _____ the energy security of a country

1 point

- Does not affect
- Strengthens
- Is a risk to

No, the answer is incorrect. Score: 0

Accepted Answers: Strengthens

9) Identify the blackened spots

1 point



- Happiness, happiness index
- Equality between the sexes, gender index
- Accessibility to basic amenities, livability index
- Gross National Income per capita, income index

No, the answer is incorrect. Score: 0

Accepted Answers: Gross National Income per capita, income index

10) If a country has a high self-sufficiency ratio, means that it imports most of its energy.

1 point

- True
- False

No, the answer is incorrect. Score: 0

Accepted Answers: False

11) The Fukushima disaster lead to an increase in the use of nuclear power in Japan.

1 point

- True
- False

No, the answer is incorrect. Score: 0

Accepted Answers: False

12) Japan is attempting to use this particular technology to power the Tokyo Olympics to a significant extent.

1 point

- Coal
- Oil
- Fuel cell
- Batteries

No, the answer is incorrect. Score: 0

Accepted Answers: Fuel cell

13) Which policy measure played an important role in increasing the use of renewable power in Japan ?

1 point

- Feed-in Premiums
- Feed-in Tariffs
- Certified Emission Reductions

No, the answer is incorrect. Score: 0

Accepted Answers: Feed-in Tariffs

14) Mexico is shifting from a gas based economy to an oil based economy.

1 point

- True
- False

No, the answer is incorrect. Score: 0

Accepted Answers: False