

X

<https://swayam.gov.in>https://swayam.gov.in/nc_details/NPTEL

21ucc125@lnmiit.ac.in ✓

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



Click to register
for Certification
exam

(https://examform.nptel.ac.in/2025_01/exam_form/dashboard)

If already
registered, click
to check your
payment status

Course outline

About NPTEL
()

How does an
NPTEL online
course work?
()

Week 1 -
Introduction
()

Week 2 -
Energy and
quality of life,

Week 2 : Assignment 2

The due date for submitting this assignment has passed.

Due on 2025-02-05, 23:59 IST.

Assignment submitted on 2025-02-04, 09:50 IST

1) Health, _____, and labor market are the three dimensions of gender inequality index. **1 point**

- ☐ Income
☐ Education
☐ Parliamentary seats
☒ Empowerment

Yes, the answer is correct.

Score: 1

Accepted Answers:

Empowerment

2) A country has life expectancy of infant at birth as 70 years. Maximum value of life expectancy at birth is 85 years and that of minimum is 35 years. Calculate health index of the country.

0.7

Yes, the answer is correct.

Score: 1

Accepted Answers:

(Type: Range) 0.65,0.75

Country energy balance ()

● Lecture 3A: Energy and Quality of Life (unit? unit=28&lesson=29)

● Lecture 3B: Energy Inequality (unit? unit=28&lesson=30)

● Lecture 3C: Energy Security (unit? unit=28&lesson=31)

● Lecture 4A: Introduction to Country Energy Balance assignment (unit? unit=28&lesson=32)

● Lecture 4B: Energy balance of Japan (unit? unit=28&lesson=33)

● Lecture 4C: Energy balance of Australia (unit? unit=28&lesson=34)

● Lecture 4D: Energy balance of Mexico (unit? unit=28&lesson=35)

● Additional Learning and

1 point

3) Diversification of energy supply _____ the energy security of a country.

1 point

- ☐ is a risk to
- ☐ does not affect
- ☒ Strengthens
- ☐ Information insufficient

Yes, the answer is correct.

Score: 1

Accepted Answers:

Strengthens

4) What would be the shape of the Lorenz curve if there was absolute equality?

1 point

- ☐ $L(x)=1$
- ☐ $L(x)=0$ for $0 \leq x < 1$, $L(1)=1$
- ☐ $L(x) = 0.5$
- ☒ $L(x)=x$

Yes, the answer is correct.

Score: 1

Accepted Answers:

$L(x)=x$

5) Can a Lorenz curve be plotted for the following function?

1 point

$$L(x) = 0.5e^{0.4x} + 0.5x^4$$

- ☐ Yes
- ☒ No

Yes, the answer is correct.

Score: 1

Accepted Answers:

No

6) According to Cherp and Jewell (2011), which of the following is not a direct theme (perspectives) of energy security?

1 point

- ☐ Resilience
- ☐ Sustainability
- ☒ Sovereignty
- ☐ Robustness

No, the answer is incorrect.

Score: 0

Accepted Answers:

Sustainability

Activity (unit?
unit=28&lesson
=36)

- Weekly Feedback (unit?
unit=28&lesson
=40)
- **Quiz: Week 2 : Assignment 2 (assessment? name=207)**

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 ()

Text

7) What will be the impact of 'large-scale adoption of electric vehicles' on country's CO₂ emissions? **1 point**

- ☐ It will increase country's CO₂ emissions.
- ☐ It will reduce country's CO₂ emissions.
- ☐ It does not have any effect on country's CO₂ emissions.
- ☒ The increment or decrement in CO₂ emissions depends on the electricity mix of the country.

Yes, the answer is correct.

Score: 1

Accepted Answers:

The increment or decrement in CO₂ emissions depends on the electricity mix of the country.

8) Increase in energy use per capita for countries beyond a certain threshold value _____ the human development index. **1 point**

- ☐ rapidly increase
- ☐ rapidly decrease
- ☒ does not significantly increase
- ☐ does not significantly decrease

Yes, the answer is correct.

Score: 1

Accepted Answers:

does not significantly increase

9) Increasing demand of oil import is _____ to the energy security of India. **1 point**

- ☒ risk
- ☐ unrelated
- ☐ information insufficient

Yes, the answer is correct.

Score: 1

Accepted Answers:

risk

10) True or False? The Fukushima nuclear power plant disaster led to an increase in the use of nuclear power in Japan. **1 point**

- ☐ True
- ☒ False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False

Transcripts ()

Books ()

**Download
Videos ()**