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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

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How does an NPTEL online course work?

Week 1 - Introduction ()

Week 2 -Energy and quality of life,

Week 4: Assignment 4

The due date for submitting this assignment has passed.

Due on 2025-02-19, 23:59 IST.

Assignment submitted on 2025-02-18, 21:49 IST

1) Which of the following statements is incorrect?

- 1 point
- All accumulations classified as reserves can be extracted profitably under current economic conditions.
- All accumulations classified as resources can be extracted profitably under current economic conditions.
- All accumulations classified as reserves are also resources.
- Some accumulations classified as resources are also reserves.

Yes, the answer is correct.

Score: 1

Accepted Answers:

All accumulations classified as resources can be extracted profitably under current economic conditions.

- 2) Which of the following is a correctly matched set, when it comes to natural resource **1.5 points** categorization?
 - Coal Stock, Wind Stock, Minerals Flow, Biomass Stock
 - Coal Flow, Wind Stock, Minerals Stock, Biomass Stock
 - Ocal Stock, Wind Stock, Solar radiation Flow, Biomass Stock

Renewables and Non-Renewables

Country energy balance ()

Week 3 -Energy Economics ()

Week 4 -Energy Resources ()

- Lecture 7A:Energyresources- Part1 (unit?unit=50&lesson=51)
- Lecture 7B:Energyresources- Part2 (unit?unit=50&lesson=52)
- Lecture 8A:
 Renewable
 Energy
 Sources- Part 1
 (unit?
 unit=50&lesson
 =53)
- Lecture 8B:
 Renewable
 Energy
 Sources- Part 2
 (unit?
 unit=50&lesson
 =54)
- Resource Model Tutorial (unit? unit=50&lesson =55)
- Weekly Feedback (unit? unit=50&lesson =58)

Coal - Stock, Wind - Flow, Solar radiation - Stock, Biomass – Stock
Ores - Stock, Wind - Flow, Solar radiation - Flow, Biomass - Stock
Yes, the answer is correct. Score: 1.5 Accepted Answers: Ores - Stock, Wind - Flow, Solar radiation - Flow, Biomass - Stock
3) Typically, which of the following is true? 1 point
Non-renewable resources are considered as stocks whereas renewable resources are considered as flows.
 Non-renewable resources are considered as flows whereas renewable resources are considered as stocks.
Both renewable and non-renewable resources are considered as stocks.
Both renewable and non-renewable resources are considered as flows.
Yes, the answer is correct. Score: 1
Accepted Answers: Non-renewable resources are considered as stocks whereas renewable resources are considered as flows.
4) If one goes from 30 m above the ground to 120 m above the ground, the wind speed, v 1 <i>point</i> is will typically:
Reduce to one third
○ Triple
○ Increase, but less than to its double
O Decrease, but more than to its half
Yes, the answer is correct. Score: 1
Accepted Answers: Increase, but less than to its double
5) For a country with oil reserves of 8000 million tonnes and an annual production of 400 million tonnes in 2024, calculate the static R/P ratio.
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No, the answer is incorrect. Score: 0
Accepted Answers: (Type: Numeric) 20.0
1 point

6) Assuming that there is no other change in physical and chemical composition, the

energy content (in MJ/kg) of biomass reduces with:

An increase in ash content and decrease in moisture

1 point

Quiz: Week 4 :	A decrease in ash content and increase in moisture	
Assignment 4	An increase in ash content as well as moisture	
(assessment?	A decrease in ash content as well as moisture A decrease in ash content as well as moisture	
name=209)		
Week 5 - Non-	Yes, the answer is correct. Score: 1	
Renewable	Accepted Answers:	
Resource	An increase in ash content as well as moisture	
Economics ()	7) Which of the following come under thermochemical conversion routes of biomass?	1 point
Week 6 -	Gasification	
Preferences, Utility and	Digestion	
Social	Fermentation	
choices ()	✓ Pyrolysis	
Week 7 -	Yes, the answer is correct. Score: 1	
Public and	Accepted Answers:	
private	Gasification	
goods, Externalities	Pyrolysis	
()	O) The CACD of each production in India from 4070 2004 was 5.05 0/ In 4070 the each	
	8) The CAGR of coal production in India from 1970-2024 was 5.25 %. In 1970 the coal production was 70 million Tonnes. Calculate the coal production (in million Tonnes) in 2024.	
Week 8 -	production was 10 million formed. Calculate the Goal production (in million formed) in 202 is	
Energy and Financing ()	1109.41	
	Yes, the answer is correct. Score: 1	
Week 9 -	Accepted Answers:	
Input-Output Analysis ()	(Type: Range) 1100,1130	
Allalysis ()		1 point
Text	9) The Pearl curve is a popular model for studying and predicting stocks of fossil fuel 1	5 noints
Transcripts ()	reserves. It can analytically be expressed as	.o points
Books ()		
	where Q_p is the cumulative production till year t, Q_∞ is the total proven reserve and A and b a	are
Download	model parameters. The analytical expression for the maximum annual production is:	
Videos ()	○ InA/b	
	○ (AQ∞)/b	
	$Q_{\infty}/(1+Ae^{-b})^2$	
	(bQ∞)/4	
	Yes, the answer is correct. Score: 1.5	

Accepted Answers:

(bQ∞)/4