

NPTEL » Bioenergy





Announcements

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Mentor

Unit 7 - Week 5: Biofuels III

Course outline	
	Assignment 5
How to access the portal	The due date for submitting this assignment has passed.
Pre-requisite assignment	As per our records you have not submitted this assignment.
Week 1: Introduction to Bioenergy	Hydrogenation process has three components: substrate, the hydrogen, and the catalyst saturated
Week 2: Basics of Biomass Technology & Biomass Resources	unsaturated inert catalytic
Week 3: Biofuels I	No, the answer is incorrect. Score: 0
Week 4: Biofuels II	Accepted Answers: unsaturated
Week 5: Biofuels III	2) In Van Krevelen diagram, anthracite is placed wood
Lecture 21 - Factors Determining the Conversion Process - II	above below at same level as
 Lecture 22 - Factors Determining the Conversion Process - III 	On right of No, the answer is incorrect. Score: 0
Lecture 23 - Conversion Technology	Accepted Answers: below
Lecture 24 - Conversion Process- (Combustion Process)	3) In Van Krevelen diagram, lignin is placed coal on right of below
O Lecture 25 - Pyrolysis Process	at same level as
Lecture Notes	on left of
O Quiz : Assignment 5	No, the answer is incorrect. Score: 0
O Solutions - Assignment 5	Accepted Answers:
Feedback for Week 5	on right of
Week 6: Bio Power I	4) In Van Krevelen plot, x-axis is
Week 7: Bio Power II	Atomic H:C ratio Atomic O:C ratio
week 7: bio Power II	Atomic H:H ratio
Week 8: Bioenergy Distribution & End Use For a Sustainable Future	O Atomic C:C ration No, the answer is incorrect. Score: 0
	Accepted Answers: Atomic O:C ratio
	5) Which of these is/ are important for quality of fuel produced as it/ they give the ease with which the material can be

Assignment 5		
The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.	Due on 2019-09-04, 23:59 I	ST.
1) Hydrogenation process has three components: substrate, the hydrogen, and the catalyst saturated	1	1 point
Score: 0 Accepted Answers: unsaturated		
In Van Krevelen diagram, anthracite is placed wood	1	1 point
above below at same level as on right of		
No, the answer is incorrect. Score: 0 Accepted Answers:		
below		
In Van Krevelen diagram, lignin is placed coal on right of	1	1 point
on left of		
No, the answer is incorrect. Score: 0 Accepted Answers: on right of		
4) In Van Krevelen plot, x-axis is	1	1 point
Atomic H:C ratio Atomic O:C ratio Atomic H:H ratio Atomic C:C ration		
No, the answer is incorrect. Score: 0		
Accepted Answers: Atomic O:C ratio		
5) Which of these is/ are important for quality of fuel produced as it/ they give the ease with which the material can be	e ignited and subsequently gasified to	1 point
Only fixed carbon Only volatile material Both a and b None of a and b		
No, the answer is incorrect. Score: 0 Accepted Answers: Both a and b		
6) Choose the most appropriate option: Fuel efficiency is if	1	1 point
High, ash is greater than residue Low, ash is greater than residue High, ash is equal to residue Low, ash is less than residue		
No, the answer is incorrect. Score: 0		
Accepted Answers: Low, ash is greater than residue		
7) In cellulose-lignin ratio, cellulose has and lignin has	1	1 point
High biodegradability, high biodegradability High biodegradability, low biodegradability Low biodegradability, high biodegradability Low biodegradability, low biodegradability		
No, the answer is incorrect. Score: 0 Accepted Answers: High biodegradability, low biodegradability		
If the power generated is roughly, a combustion plant can be classified as a large scale industrial plant	1	1 point
○ 100-300 mW ○ 100-300 W ○ 100-300 kW ○ 100-300 MW		
No, the answer is incorrect.		
Score: 0 Accepted Answers: 100-300 MW		
9) In combustion process, the outputs are	1	1 point
Water, coal Water, oxygen Carbondioxide, steam Steam, oxygen		
No, the answer is incorrect. Score: 0 Accepted Answers:		
Carbondioxide, steam 10) In which of the following natural calamities, flash pyrolysis happens		1 point
Floods Hurricane		,
Orought Olicanic eruptions		
No, the answer is incorrect. Score: 0		
Accepted Answers: Volcanic eruptions		